Macintosh

Panasonic®

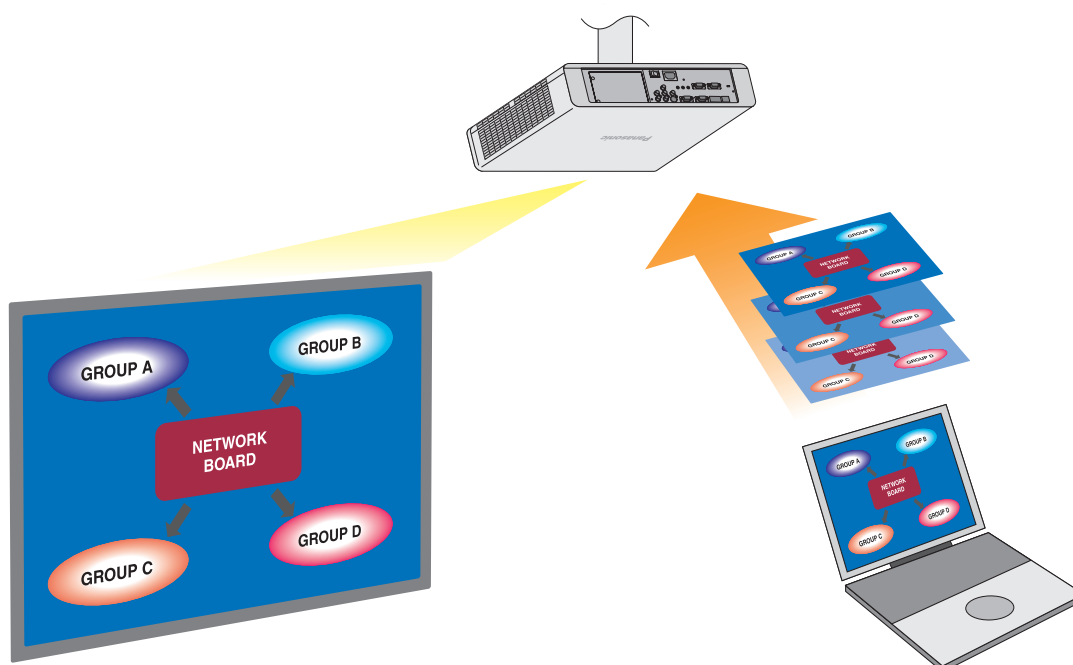# Network Operation Manual

(Wireless Manager mobile edition 5.5)

※ The projectors illustrated as examples are PT-FW300NTE.

ENGLISH

Contents

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Wireless Manager mobile edition 5.5 (hereinafter called "Wireless Manager ME 5.5") uses the following software programs:
Portion of this software are based in part on the work of the Independent JPEG Group

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Please note the following.

• Panasonic cannot be held liable for any direct or indirect damages resulting from the use or malfunction of this projector.
• Panasonic cannot be held liable for damages arising from data corruption or loss as a result of using this projector.

Notes on Using Wireless Connection

Wireless connection function of the projector uses radio waves in the 2.4 GHz band.
A radio station license is not required, but be sure to read and fully understand the following items before use.

■Do not use near other wireless equipment.

The following equipment may use radio waves in the same band as the projector.
When the projector is used near these devices, radio wave interference may make communication impossible, or the communication speed may become slower.
• Microwave ovens, etc.
• Industrial, chemical and medical equipment, etc.
• In-plant radio stations for identifying moving objects such as those used in factory manufacturing lines, etc.
• Designated low-power radio stations

■If at all possible, avoid the use of cellular phones, TV sets or radios near the projector.

Cellular phones, TV sets, radios and similar devices use different radio bands from the projector, so there is no effect on wireless communication or the transmission and reception of these devices. However, radio waves from the projector may produce audio or video noise.

■Wireless communication radio waves cannot penetrate steel reinforcements, metal, concrete, etc.

Communication is possible through walls and floors made from materials such as wood and glass (except glass containing wire mesh), but not through walls and floors made from steel reinforcements, metal, concrete, etc.

■Avoid using the projector in locations prone to static electricity.

If the projector is used in a location prone to static electricity, such as on a carpet, the wireless LAN or wired LAN connection may be lost.
If this happens, eliminate the source of static electricity or electromagnetic noise and reconnect to the wireless LAN or wired LAN.
In rare cases static electricity or electromagnetic noise may make it impossible to establish a connection to the LAN.
If this happens, press the power button on the remote control or on the projector to power off the projector temporarily.
After the cooling fan stops operating (after the power monitor on the projector changes from orange to red), power on the projector and reconnect to the LAN.

■Using the projector outside the country

It is forbidden to take the projector outside the country or region where you purchased it, so use it only in the said country or region. Also, note that depending on countries or regions there are restrictions on the channels and frequencies at which you can use the wireless LAN.

Notes on Using Wireless Connection (cont.)

■Channels that can be used

The channels (frequency range) that can be used differ according to the country or region. Refer to the table below.

Country or region	Standard	Channels used	Frequency band (Center frequency)
Japan	ARIB STD-T66	1 - 13	2,412 MHz - 2,472 MHz
China	SRRC		
England, Germany, France, Spain, Italy, Belgium, Austria, Sweden, Norway, Denmark, Switzerland, Holland, Finland, Portugal, Greece, Thailand, South Korea	ETSI 300.328		
Singapore	IDA		
Australia, New Zealand	C-Tick		
Malaysia	SIRIM		
United States	FCC part 15	1 - 11	2,412 MHz - 2,462 MHz
Taiwan	DGT		

■Wired LAN

Use straight or crossover LAN cable that is compatible with category 5 or above.

※1: Use category 5e or above when using 1000BASE-T.

※2: Whether straight cable, crossover cable or both can be used varies depending on the system configuration. For details, consult your system administrator.

Request Regarding Security

When using this product, the following security issues are foreseen.

• Leakage of your private information via this product

• Illegal operation of this product by a malicious third-party

• Harm to or cessation of operation of this product by a malicious third-party

Please take adequate security measures.

• Set passwords, and limit the users that are permitted login access.

• Make sure the password is as hard to guess as possible.

• Change the password periodically.

• Panasonic Corporation and its affiliated companies never directly ask customers for their password.

Do not give out your password even if directly asked by a third-party representing themselves as Panasonic Corporation.

• Use this product in a network where security is ensured by a firewall, etc.

Precautions for Security when Using a Wireless LAN Product

With a wireless LAN, information is exchanged between a PC, etc. and a wireless access point using radio waves in lieu of using a LAN cable. The advantage of a wireless connection is that it is possible to freely connect to the LAN as long as you are within the radio transmission range.

On the other hand, because the radio waves can travel through obstacles (such as walls) and are available everywhere within a given range, problems of the type listed below may occur if security-related settings are not made.

• Surreptitious monitoring of transmitted data

A malicious third-party may intentionally intercept and monitor transmitted data including the content of e-mail and personal information such as your ID, password, and/or credit card numbers.

• Illegal system entry

A malicious third-party may access your personal or corporate network without authorization and engage in the following type of behavior.

• Retrieve personal and/or secret information (information leak)

• Spread false information by impersonating a particular person (spoofing)

• Overwrite intercepted communications and issue false data (tampering)

• Spread harmful software such as a computer virus and crash your data and/or system (system crash)

Since most wireless LAN cards and wireless access points are equipped with security features to take care of these problems, you can reduce the possibility of these problems occurring when using this product by making the appropriate security settings for the wireless LAN product.

Some wireless LAN devices may not be set for security immediately after purchase. To decrease the possibility of occurrence of security problems, before using any wireless LAN devices, be absolutely sure to make all security-related settings according to the instructions given in the operation manuals supplied with them.

Depending on the specifications of the wireless LAN, a malicious third-party may be able to break security settings by special means.

If you cannot deal with security settings when using this product with a wireless LAN, please contact "Panasonic Projector Support Center."

We recommend that you fully understand the potential problems when using this product with inadequate security and take the necessary measures. Implementation and responsibility for security is at the discretion of the user of this product.
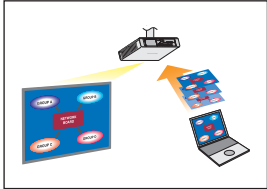
What you can do with Wireless Manager mobile edition 5.5

● Network Transmission

You can connect the projector to a computer via the wireless LAN or the wired LAN, and send moving and still images.
For information on the connection, refer to the description on page 13 for wireless LAN, and page 23 for wired LAN.

● Project with various methods

<Live Mode> (See page 30)

Used for normal presentations.

<Multi Live Mode> (See page 31)
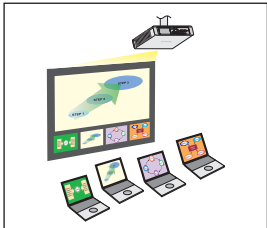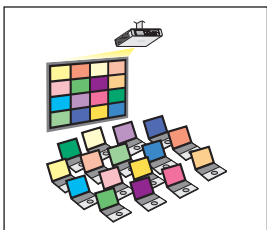
• 4-screen multi style (See page 32)
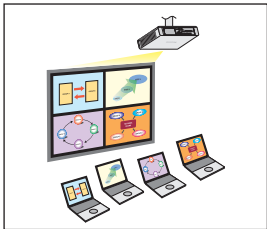
Used for presentations involving multiple computers.

• 4-screen index style (See page 33)

This style is used in cases where you wish to focus attention on one of four presentations displayed simultaneously.

• 16-screen index style (See page 35)

This style is used in cases where you wish to display a large number of presentations as a list.

What you can do with Wireless Manager mobile edition 5.5 (cont.)

● Project with multiple projectors

<Multiple source live mode> (See page 36)
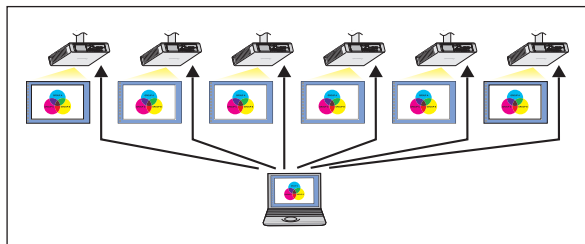
This arrangement can be used when a number of projectors are installed in a large conference room, or when holding simultaneous presentations in several conference rooms, for example.

<Multiple source multi live mode> (See page 38)
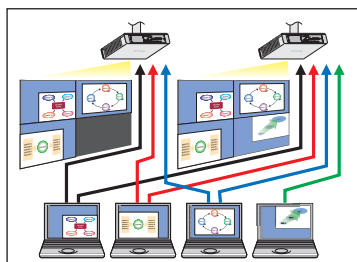
This arrangement can be used when you wish to simultaneously display multiple presentations using multiple projectors.

● Useful functions

<Selective area transmission> (See page 40)
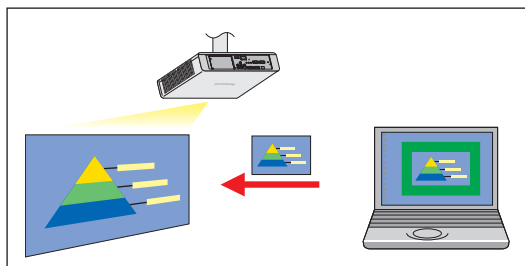
By using the selective area window, you can specify the necessary information alone from the computer screen, and display it on the projection screen.

> **Note**
>
> For connectable projectors and functions available for Wireless Manager ME 5.5, see "List of connectable projectors/available functions in each projection method" on page 42.

What you can do with Wireless Manager mobile edition 5.5 (cont.)

<WebBrowser control> (See page 55)
The following operations are possible when using WebBrowser.
• Setting and adjusting the projector
• Displaying the projector status
• Setting for message transmission

<Virtual remote control function> (See page 29)
You can perform the following operation from a PC, using the virtual remote control in stead of the remote control.
• Changing the channels
• Turning the power on and off

<One-click Connection> (See page 26)
You can connect to the projector by double-clicking or using drag-and-drop.

<Live mode cut-in function> (See page 53)
During live mode or multi live mode, a different computer can interrupt and project images in live mode.

  Note

If you use "Web control," turn on [NETWORK CONTROL] in the network menu for the projector. (See page 52)

Check your computer

Necessary environment for computers to be connected

• First, check your computer to see whether or not it has a wired LAN※ or a built-in wireless LAN※ function.
  ※LAN : "Glossary" (See page 64)
• Before connecting the projector to the computer, be sure to check the following settings.
• Operation is not guaranteed for all wireless LAN cards and built-in wireless LAN adapters.

■Wireless LAN

| Check 1 | **Wireless LAN settings** |

• Is your wireless LAN switched on?

| Check 2 | **Logon user's settings** |

• Can you log on with [Administrator (Admin)] authority?

| Check 3 | **Computer's settings** |

• When security (firewall) software and utilities for network cards are installed, these may prevent connection of the projector.

■Wired LAN

| Check 1 |

<For Wired LAN>
• Is the cable properly connected?
• The specifications for cables vary depending on the system configurations. Confirm the projector settings and the cable specification.

| Check 2 | **Wired LAN settings** |

<Computer with a built-in wired LAN function>
• Is your wired LAN switched on?
<Computer without a built-in wired LAN function>
• Is your wired LAN card properly recognized?
• Is your wired LAN card switched on?
• Install the wired LAN card driver beforehand.
  For details on how to install the driver, refer to the instructions accompanying the wired LAN card.

Software requirements

System requirements

The computer must meet the following requirements in order to use the supplied software.

OS: Mac OS X v10.4
Mac OS X v10.5
CPU: 1 GHz PowerPC G4 or faster, or 1.8 GHz Intel Core processor or faster
RAM: 512 MB or more recommended
Empty hard disk capacity:
60 MB or more
Hardware conditions:
CD or DVD drive (for installing software and viewing the operation manual)
(If you install the software via network, you must connect to the local area network.)
LAN terminal (10BASE-T/100BASE-TX)
IEEE802.11b/g supported internal wireless LAN
However, some IEEE802.11b/g wireless LAN may not allow an IEEE802.11g connection to projectors.
WebBrowser: Safari 2.0 or later

Operation is not guaranteed for all computers that meet the above conditions.

Software Installation

Contents on Provided CD-ROM

Set the provided CD-ROM into the CD/DVD-ROM drive.

> **Notes**
> • Quit all running programs. Otherwise, installation may not be possible.
> • [Admin (administrator)] authority is required for installation.

Wireless Manager ME 5.5

Wireless Manager ME 5.5 is used to send a screen from PC to the projector via wireless or wired LAN.

1 **Set the provided CD-ROM into the CD/DVD-ROM drive of a computer.**

2 **Double-click [WMmac5.5.dmg] in the CD/DVD-ROM drive.**
[WMMac5.5] appears on the desktop.

> **Note**
> The user's manual (Index.pdf) is on the CD/DVD-ROM disc.
> Double-click it to view it.

3 **Double-click [Wireless Manager.pkg].**
Installation begins.
Follow the instructions on the screen and install the software.

> **Notes**
> • When a window for inputting a [Name] and [Password] appears, input the [Admin (administrator)]'s name and password.
> • Install Wireless Manager ME 5.5 in the [Applications] folder (./Applications).

Connecting with wireless LAN

Easy Wireless Set Up

There are 3 different connection methods, "S-MAP" (Projector Signal Map) Connection, "1-4/U" Connection, and "PC Search" Connection. These connections enable easy search and connection to the projector.
(Refer to "1-4/U" connection on page 17 to establish an easy wireless connection with projectors that have no S-MAP function.)

- [S-MAP] Connection: Search and connect to the projectors set up using [Network Number] [S-MAP] (See page 48). (See page 16)
  Operation is given in [S-MAP] display in the <Projector Search> window.

- [1-4/U] Connection: Search and connect to the projectors set up using [Network Number] [1]-[4] or [USER1]-[USER3]. Projectors that can be connected to are displayed in a list (See page 17).
  Operation is performed in [1-4/U] view on the <Projector Search> window.

- [PC Search] Connection: Use the [COMPUTER SEARCH] function on the projector to search and connect (See page 19).

Connecting with wireless LAN (cont.)

Parts name in search screen

■ <Projector Search> window – [S-MAP] (See page 16)

Current settings

When selected,
the background
changes to blue.

① **Setting menu display**
Choose to display or hide the ② to ⑥ buttons.

② **Access Devices** (See pages 30, 36, 38)
When only one projector is connected, select [📷]. When multiple projectors are connected, select [📷].
※Multiple projectors [(Multiple projectors icon)] are available when "1-4/U" is selected.

③ **S-MAP** (See page 16)
Display <Projector Search> window – [S-MAP].

④ **1-4/U** (See page 17)
Display <Projector Search> window – [1-4/U].

⑤ **PC Search** (See page 19)
Display <PC Search> window.

⑥ **Other search** (See page 25)
From the projectors that are currently switched on, search for the projector of specified IP address, domain name, and ID from all network numbers except for [U (user)].

⑦ **Updates the list of found projectors.**

⑧ **This mark appears for the projectors that have been searched and found through wired LAN.**

⑨ **ID** (See page 25)
Display projector's ID.

⑩ **Available modes and functions**
Unavailable modes/functions among [Live mode 📷] and [Multi live mode 📷] are displayed with [🚫] overlaid on them.

⑪ **Connection message**
Blinks when connection is not possible. Click to display information on resolving the issue. (See page 21)

⑫ **Display the projector's name and name given in the favorites.** (See page 45)
Guides for the operating status and connection method etc are also displayed.
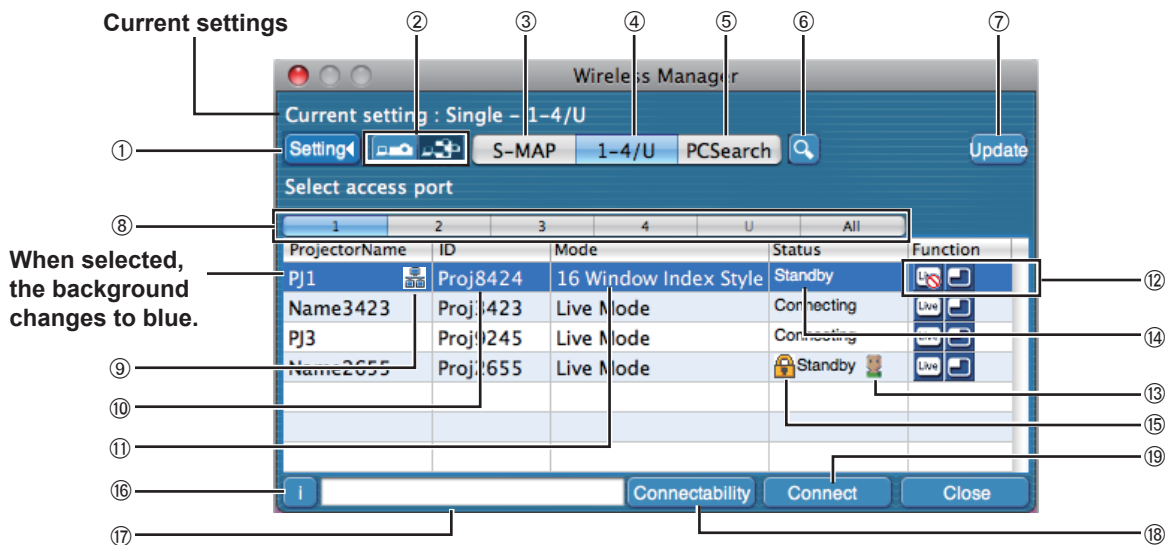
⑬ **Connectability**
The name and ID of projectors are displayed on the upper left of the selected projector's projection screen.
Once it is confirmed as connectable, the message "Projector is available." will appear on the PC screen.

⑭ **Connection**
Connect to the selected projector.

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Connecting with wireless LAN (cont.)

■ <Projector Search> window – [1-4/U] (See page 17)

Current settings ② ③ ④ ⑤ ⑥ ⑦

① Setting — Current setting : Single – 1-4/U — S-MAP — 1-4/U — PCSearch — Update

⑧ Select access port — 1 2 3 4 U All

When selected, the background changes to blue.

ProjectorName	ID	Mode	Status	Function
PJ1	Proj8424	16 Window Index Style	Standby	
Name3423	Proj3423	Live Mode	Connecting	Live
PJ3	Proj9245	Live Mode	Connecting	Live
Name2655	Proj2655	Live Mode	Standby	Live

⑨ ⑩ ⑪ ⑫ ⑭ ⑬ ⑮

⑯ i Connectability Connect Close ⑲

⑰ ⑱

① **Setting menu display**
Choose to display or hide the ② to ⑥ buttons.

② **Access Devices** (See pages 30, 36, 38)
When only one projector is connected, select [ ]. When multiple projectors are connected, select [ ].
※Multiple projectors [(Multiple projectors icon)] are available when "1-4/U" is selected.

③ **S-MAP** (See page 16)
Display <Projector Search> window – [S-MAP].

④ **1-4/U** (See page 17)
Display <Projector Search> window – [1-4/U].

⑤ **PC Search** (See page 19)
Display <PC Search> window.

⑥ **Other search** (See page 25)
From the projectors that are currently switched on, search for the projector of specified IP address, domain name, and ID from all network numbers except for [U (user)].

⑦ **Updates the list of found projectors.**

⑧ **"Network" number**
If you specify [1], [2], [3], [4], [U (user)]※1 or [Display all], the projector(s) assigned with the corresponding network number(s) will be displayed in [Projector name] field (See page 48). The default value is [S-MAP]※2 for both PC and projector.

⑨ **This mark appears for the projectors that have been searched and found through wired LAN.**

⑩ **ID** (See page 25)
Display projector's ID.

⑪ **Mode** (See page 30)
Display projector's mode or style.

⑫ **Available modes and functions**
Unavailable modes/functions among [Live mode Live] and [Multi live mode] are displayed with [ ] overlaid on them.

⑬ **The number of people connected to this projector**
Display the number of people that are connected to this projector.

⑭ **The status of this projector**
Display the projector's connection status.

⑮ **[ ] will be displayed when password is required for the connection.** (See page 25)

⑯ **Connection message**
Blinks when connection is not possible. Click to display information on resolving the issue. (See page 21)

⑰ **Display the projector's name and name given in the favorites.** (See page 45)
Guides for the operating status and connection method etc are also displayed.

⑱ **Connectability**
The name and ID of projectors are displayed on the upper left of the selected projector's projection screen. Once it is confirmed as connectable, a message is displayed on the PC screen reading "Connectable".

⑲ **Connection**
Connect to the selected projector.

※1
• In the following situations, connections other than [USER] are not possible.
  - When not installed in the [Applications] folder
• Depending on the computer and wireless LAN card used, Easy Wireless Set Up may not be possible. If this is the case, the [Network] number of <Projector Search> window automatically switches to [U (user)]. For details of the connection procedure, first close Wireless Manager ME 5.5, and then refer to page 22.

※2
• The network number is [S-MAP], when Wireless Manager ME 5.5 starts. These numbers must match for the connection. To check the network number, refer to the network menu of the projector.
• When importance is placed on security, select the network number [2] - [4], because WEP (wireless communication encryption)※ is set on these network numbers.
• If [U (user)] is used for the network number, important video/audio data is protected because AES※ encryption processing takes place in advance for all network numbers, even though [ENCRYPTION] is set to [NONE].
• Other network adapters may not be usable under Easy Wireless Set Up connections.
• Connections to other networks connected through the wireless LAN card are broken under Easy Wireless Set Up connections.

※ "Glossary" (See page 65)

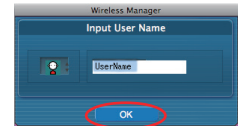# Connecting with wireless LAN (cont.)

1 **Click the install target or [📲] in the Dock.**

<Projector Search> window – [S-MAP] is displayed. (Parts name → See page 14)

● **When the <Input User Name> window appears**

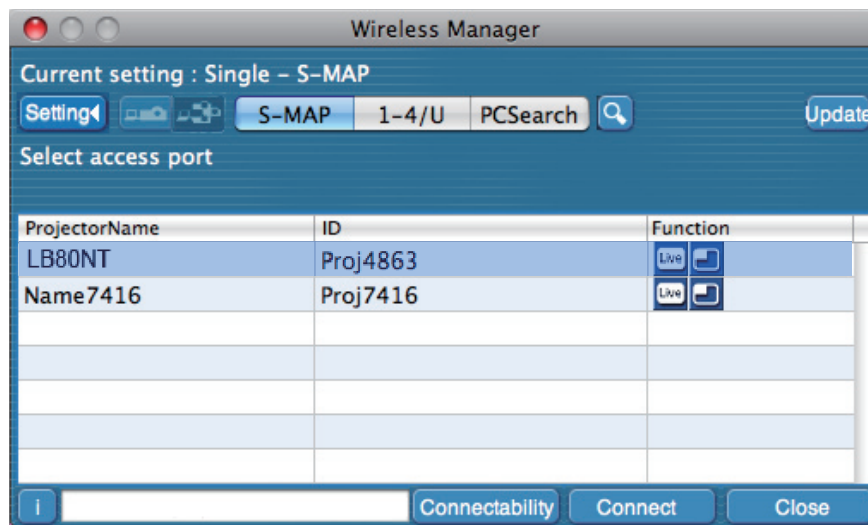Set the icon and user name, and click [OK].

Notes

• Enter the user name in up to 8 alphanumerics.
• The icon and user name are set when Wireless Manager ME 5.5 is first launched.
• The icon and user name settings can be changed in the <Option> window. (See page 45)
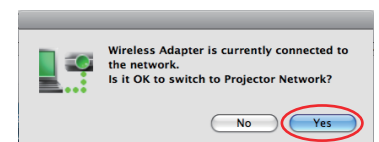
<Projector Search> window – [S-MAP]
The projectors that can be connected are displayed.

2 **Select the desired projectors, and click [Connect].**

● **If the <Confirmation Dialog> box is displayed**
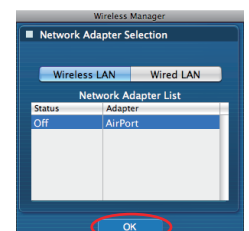Click [Yes(Y)].

● **When the <Network Adapter Selection> window appears**
Select the adaptor from the list, and click [OK].
If the <Confirmation Dialog> box is displayed, click [YES (Y)].

Notes

• For details on how to connect, refer to page 24.
• Only the built-in adapter appears on the <Network Adapter Selection> window.
• Refer to the models on page 42 supporting the wired LAN that is compatible with this software.
• If you want to enable the network adapter after starting the Wireless Manager, you should do it after exiting Wireless Manager.

3 **Connection completed.**

When the connection with the projector is established, the launcher appears. ("Description of the launcher"→ See page 28)
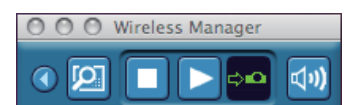
Notes

• The launcher is not projected on the projector.
• If you cannot connect the projector and computer using Easy Wireless Setup, refer to page 66.
• If you do not find a projector you want to connect, press the [Update] button.

Connecting with wireless LAN (cont.)

"1-4/U" Connection
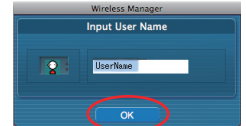
1 Click the install target or [🖼️] in the Dock.

<Projector Search> window – [S-MAP] is displayed.

● When the <Input User Name> window appears

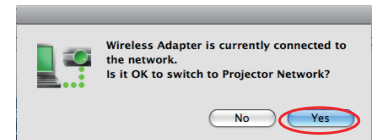Set the icon and user name, and click [OK].

Notes

• Enter the user name in up to 8 alphanumerics.
• The icon and user name are set when Wireless Manager ME 5.5 is first launched.
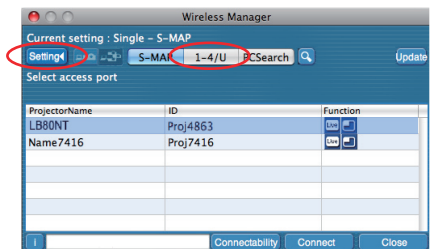• The icon and user name settings can be changed in the <Option> window. (See page 45)

● When the <Confirmation dialog> box appears

Click [YES (Y)].

2 Click [1-4/U] in the setting menu.

If the setting menu is not displayed, click [Setting ▶].

● When the <Network Adapter Selection> window appears

Select the adapter from the list and click [OK].
If the <Confirmation dialog> box appears, click [YES (Y)].

Notes

• For details on how to connect, refer to page 24.
• Only the built-in adapter appears on the <Network Adapter Selection> window.
• Refer to the models on page 42 supporting the wired LAN that is compatible with this software.
• If you want to enable the network adapter after starting the Wireless Manager, you should do it after exiting Wireless Manager.

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Connecting with wireless LAN (cont.)

3 **A list of projectors that can be connected to are displayed in the <Projector Search> window – [1-4/U].**

(Parts name → See page 15)
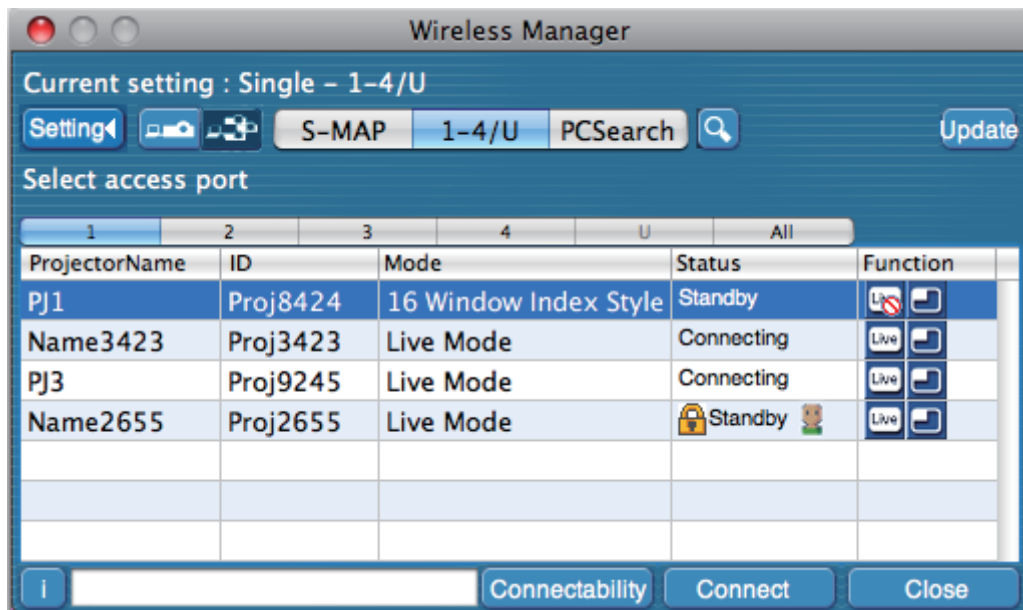
4 **Select the same network number as the one for the projector you want to connect to (See page 48).**

Projectors powered on in the chosen network group are listed.

5 **Select the desired projectors, and click [Connect].**

The launcher appears and the connection with the projector is established.
("Description of the launcher" → See page 28)
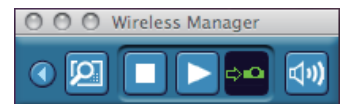
Notes

• The launcher is not projected on the projector.
• If you cannot connect the projector and computer using Easy Wireless Setup, refer to page 66.
• If you do not find a projector you want to connect, press the [Update] button.

Connecting with wireless LAN (cont.)

"PC Search" Connection

1 **Click the install target or [📷] in the Dock.**

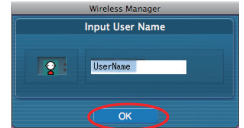<Projector Search> window – [S-MAP] is displayed.

● **When the <Input User Name> window appears**
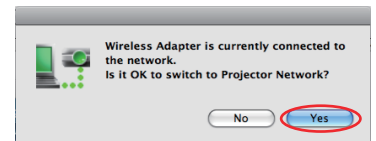
Set the icon and user name, and click [OK].

> **Notes**
> • Enter the user name in up to 8 alphanumerics.
> • The icon and user name are set when Wireless Manager ME 5.5 is first launched.
> • The icon and user name settings can be changed in the <Option> window. (See page 45)

● **When the <Confirmation dialog> box appears**

Click [YES (Y)].

2 **Click [PC Search] from the setting menu.**

If the setting menu is not displayed, click [Setting ▶].
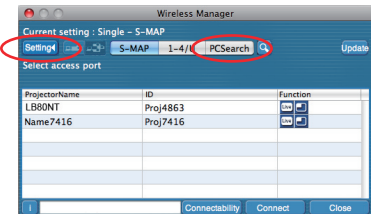
● **When the <Network Adapter Selection> window appears**

Select the adapter from the list and click [OK].
If the <Confirmation dialog> box appears, click [YES (Y)].
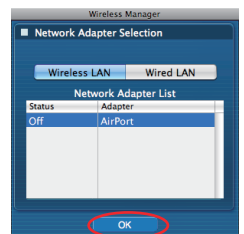
> **Notes**
> • For details on how to connect, refer to page 24.
> • Only the built-in adapter appears on the <Network Adapter Selection> window.
> • Refer to the models on page 42 supporting the wired LAN that is compatible with this software.
> • If you want to enable the network adapter after starting the Wireless Manager, you should do it after exiting Wireless Manager.

Connecting with wireless LAN (cont.)

3 **Select the projector to connect.**

<PC Search> window appears.

> **Note**
>
> Click on [i] in the <PC Search> window, and the models of projector that can perform [PC Search] are displayed. (See page 42)
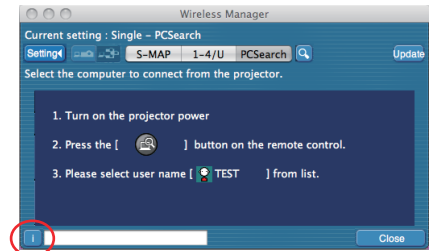
■**Operations on the projector**

① Turn on the power to the projector unit.
② Press the [COMPUTER SEARCH] button on the remote control.
   (You can also search from [COMPUTER SEARCH] from the network menu.
   → See page 53)
   The computers that can be connected to the projector are displayed in a list.
③ Select from the list displayed on the projector an item with the same icon/
   user name as is displayed on the computer.
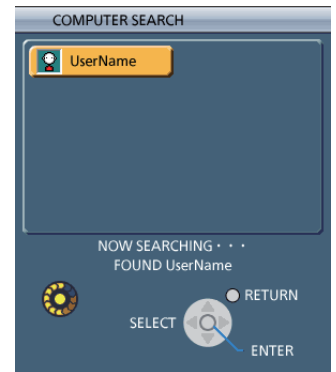
4 **Connection completed.**

When the connection with the projector is established, the launcher appears.
("Description of the launcher" → See page 28)

> **Note**
>
> The launcher is projected on the projector.
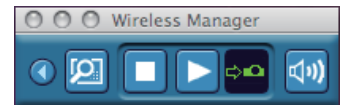
Connecting with wireless LAN (cont.)

Connection error messages

When wireless LAN connection cannot be established, the projector is not displayed.
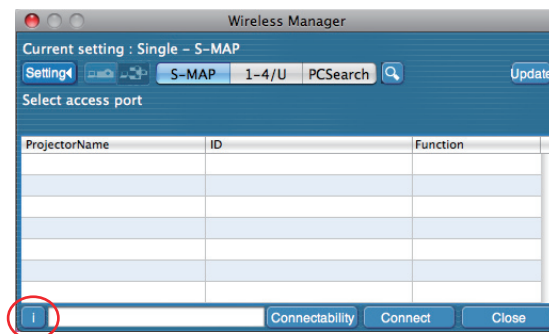
Click the [i] button at this time to display information on resolving the issue as shown below.
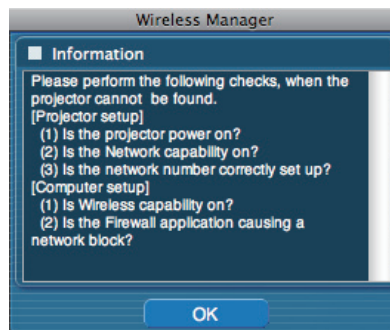
Connecting with wireless LAN (cont.)

Connecting through the access point

You can make the setting for infrastructure mode※ (connection through the access point※); however, confirm to your system administrator on network settings before changing any settings.
※"Glossary" (See pages 64 - 65)

① **Projector settings**

1 **Turn on the projector and press the [NETWORK] button on the remote control.**

2 **Press the menu button to open the [NETWORK] menu, and then select from among [USER 1] through [USER 3] for [WIRELESS LAN] and press [ENTER].**

3 **Set the details of network and select [OK].**
As for network setting items, see pages 48 - 50.
Confirm to your system administrator on network settings before changing any settings.

> **Note**
>
> The projector's MAC address※ can be checked with [STATUS] in the network menu of the projector unit.
> ("Verifying settings"→ See page 54) ※"Glossary" (See page 64)

② **Computer settings**

4 **Turn on the computer.**

5 **Make the network setting according to your system administrator.**

> **Note**
>
> When the user does not have the [Admin (administrator)] authority, the [Admin (administrator)]'s name and password are required to make network settings.

6 **Connect to your access point.**

7 **Start Wireless Manager ME 5.5.**
A confirmation message appears asking whether to switch the projector to the network or not. Select [No].
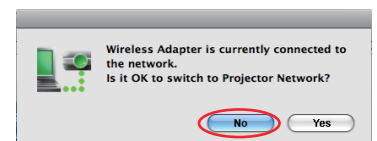
**8** **Select a projector you want to connect on the <Projector Search> window ([S-MAP] or [1-4/U]), and click [Connect]. (See pages 16, 17)**
The launcher appears and the connection with the projector is established.
("Description of the launcher" → See page 28)

> **Note**
>
> If no projector is displayed in <Projector Search> window with which you want to connect, click [🔍] to search by IP address. (See page 25)

> **Note**
>
> If you cannot establish wireless LAN connection via an access point after performed the right steps described in "① Setting projector", contact the manufacturer of your access point (i.e. radio relay device).

Connecting with Wired LAN

Connection can be made with wired LAN. However, confirm to your system administrator on network settings before changing any settings.

① **Projector settings**

1 Turn on the projector and press the [NETWORK] button on the remote control.

2 Press the menu button to open the [NETWORK] menu, select [Wired LAN] and then press [ENTER].

3 Set the details of network and select [ENTER].
As for network setting items, see page 47.
Confirm to your system administrator before changing any settings.

② **Computer settings**

4 Turn on the computer.

5 Make the network setting according to your system administrator.

> **Note**
>
> If you do not have [Administrator (Admin)] authority, you need to enter the name and password of [Administrator (Admin)].

6 Launch Wireless Manager ME 5.5

● **When the <Network Adapter Selection> window appears**
① Click [Wired LAN].
② Select the adapter from the list and click [OK].

7 Select a projector you want to connect on the <Projector Search> window ([S-MAP] or [1-4/U]), and click [Connect]. (See pages 16, 17)
When the connection with the projector is established, the launcher appears.
("Description of the launcher" → See page 28)

> **Note**
>
> If no projector is displayed, click [🔍] to start searching by IP address. (See page 25)

Selection of adapters

When the <Network Adapter Selection> window appears, select [Wireless LAN] or [Wired LAN] and click [OK].

[Wireless LAN]:   The wireless LAN is used for the connection.
[Wired LAN]:   The wired LAN is used for the connection.
                  The <Projector Search> window appears. (See page 16)
                  The only usable network number is [U (USER)].

Notes

• Refer to the models on page 42 supporting the wired LAN that is compatible with this software.
• If you want to enable the network adapter after starting the Wireless Manager, you should do it after exiting Wireless Manager.
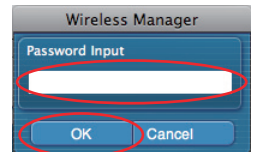
Other operations for connection

Operations when password entry is required for connection

A [🔒] mark is displayed for projectors that have passwords set.
The window shown to the right appears to establish a connection. Enter the password for the projector and click [OK].
(Password setting → See page 51)

Notes
- Click [CANCEL] at the <Password Input> window to return to launcher canceling the connection (See page 28).
- When an incorrect password is entered, an error message appears.
  Click [OK] to return to the <Password Input> window and enter the correct password again.

Other search

Apart from "Easy Wireless Set Up" (See page 13), there are 3 other ways to search for and connect to a projector, namely "Search by IP address", "Search by domain name", and "Search by ID".
These methods can be used if you cannot search using "Easy Wireless Set Up".

- Search by IP address   Search for and connect to a projector from the IP address※.
  The projector that you want to connect to must have a network number of [USER1]-[USER3] and must have the IP address set. (See pages 47, 48)

- Search by domain name   Search for and connect to a projector from the domain name※.
  The projector that you want to connect to must have a network number of [USER1]-[USER3] and must have the IP address set. (See pages 47, 48)
  ※ "Glossary" (See page 64)

- Search by ID   Even if there are two or more projectors with the same name, an ID ([Proj] + 4-digit number) is assigned to each projector to enable the projectors to be identified.
  A search for the projector of the specified ID is carried out from among the projectors that are presently switched on, from all network numbers other than [USER1]-[USER3].
  It is necessary to know ID in advance. When input selection is switched to [NETWORK] on a projector, the ID appears on the upper right of the projection screen for approximately 5 seconds. If you write down the ID displayed in the [ID] column of the <Projector Search> window in advance, you can search a projector by the ID from next time.

1 **Click [🔍] at the <Projector Search> window.**
<Other search> window appears.

2 **Enter the information of the projector you want to search for, and select the search criteria.**

- When using "Search by IP address"
  ① Enter the IP address (including its periods).
      Example: 192.168.10.100
  ② Select [Search by IP address]

- When using "Search by domain name"
  ① Enter the domain name.
  ② Select [Search by domain name].

- When using "Search by ID"
  ① Enter the ID.
  ② Select [Search by ID].

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Other operations for connection (cont.)

3 **Click [Search].**

When <Other search> window – [Searching] is displayed, the search starts.
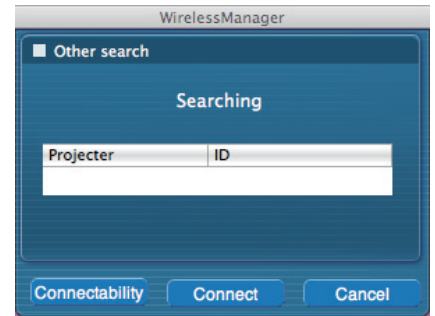
4 **Check the search results.**

When the projector of the applicable ID is found, the [Projector Name] and [ID] appear.

> **Note**
>
> If a projector of the applicable ID is not found, [No Projector detected.] appear.
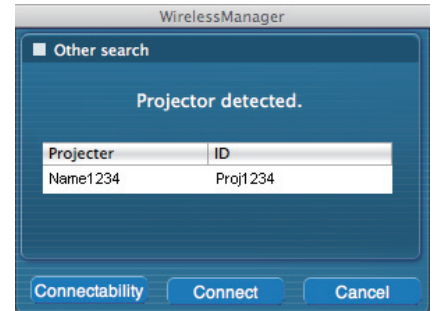
5 **Click [Connect].**

When the connection with the projector is established, the launcher is displayed.
("Description of the launcher" → See page 28)

> **Note**
>
> The launcher is projected by the projector.
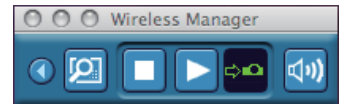
Automatic connection by "One-click connection"

An automatic connection can be established using the created profile.
This function is called "One-click connection." (Create a profile → See page 27)

Perform step ① or ②.

① Double-click the profile.
  (This function cannot be used when using without installation.）
② Drag and drop the profile onto the destination of installation or [ ] in the Dock.
  The computer connect to the projector that was connected when the profile was created.

Other operations for connection (cont.)

1 **Click [Exit] in the launcher menu.**

The following window appears.
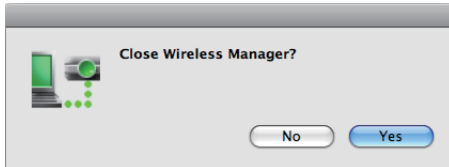
■ When connecting the projector for the first time

The <Preservation of a Profile> window appears.
Create a profile with information about connected projectors.
You can use the created profile to connect automatically.
This function is called "One-click Connection". (One-click Connection→ See page 26)

Set the save destination and file name, and click [OK].
If you do not need to create a profile, click [Close].
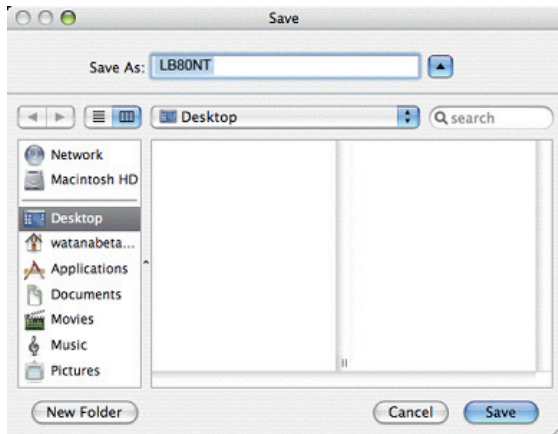
2 **Click [Yes].**

The computer returns to the original network settings when the connection is ended.
However, note that some time may be needed to return to the original network settings.
Click [No] to return to the launcher.

> **Note**
>
> You can also exit by selecting [End] from the launcher menu.

Various projection methods

Description of the launcher

The launcher always appears on the computer screen, and can be used to perform various operations.

Launcher menu button ① ② ③ Status indication Volume control button

Status indication

Volume control slider

Mute button
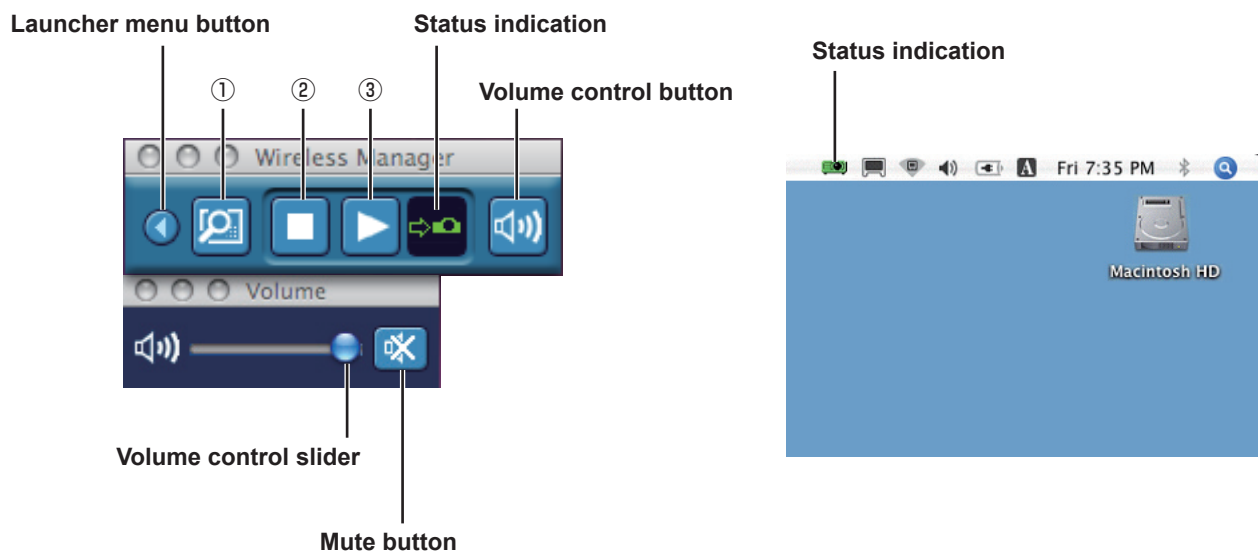
■ Status indication

When connected to one projector

- / (Green, lit): Transmission possible
- / (Blue, lit): Own computer currently transmitting (when in live mode)
- / (Yellow, lit): Other user currently transmitting
- / (Red, lit): Communication impossible
- / (Black, lit): When the projector has not been selected

When connected to multiple projectors

- / (Green, lit): All transmission possible
- / (Blue, lit): Currently Transmitting
- / (Yellow, lit): Communication impossible for more than one unit
- / (Red, lit): All communication impossible
- / (Black, lit): When the projector has not been selected

■ Volume control button

The volume control slider and mute button are displayed. Click again to close.

■ Operating Button

① **Favorite Function Button**: You can set your favorite function to this button. (See page 45)
② **Stop Communication Button**: Stops live mode.
③ **Start Communication Button**: Starts live mode. During communication the display changes to [ ] (paused).

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Various projection methods (cont.)

Launcher menu button
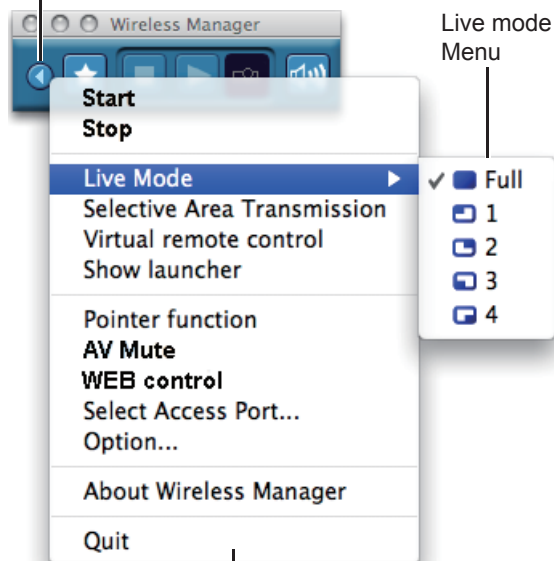
Live mode Menu

Click [ ] in the status display on the menu bar to display the launcher menu.
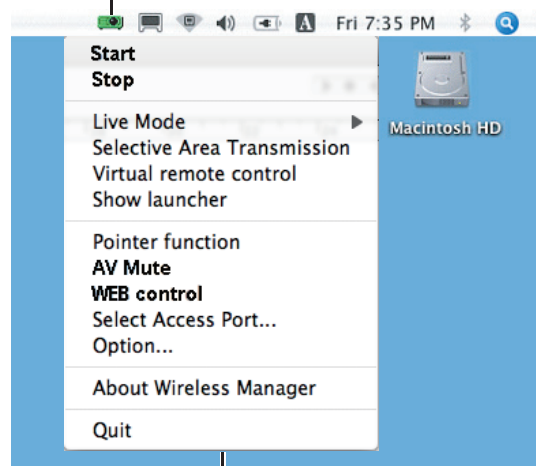
Launcher Menu

Launcher Menu

■ Launcher Menu

① **Launcher menu button**: The launcher menu will appear. You can operate it by clicking the various items.

[Start]: Starts projection.

[Stop]: Stops projecting.

[Live Mode]: The live mode menu will appear. Set a projection position for live mode. (See pages 30-31)

[Selective Area Transmission]: By using the selective area window, you can specify the necessary information alone from the computer screen, and display it on the projection screen. (See page 40)

[Virtual remote control]: The projector remote control is displayed on the computer screen, where it can be operated.

[Show launcher]: Displays the launcher menu. (When operating from the system menu bar)
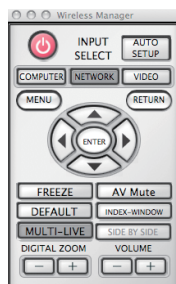
[Pointer function]: Switches the pointer shape on the projected screen. (See page 41)

[AV Mute]: Temporarily mutes the projector screen and volume. (See page 41)

[WEB control]: Control a projector through the WebBrowser of a computer. (See page 55)

[Select Access Port]: The <Projector Search> window ([S-MAP], [1-4/U], [PC Search]) appears. Return to the screen before the launcher display. (See pages 16, 17, 19)

[Option]: Displays the <Option> window. (See page 43)

[About Wireless Manager]: Display the version information for the application.

> **Note**
> • The virtual remote control can only be used with the 2 screen function when the connected projectors support 2 screen function.

Various projection methods (cont.)

Live Mode

Connect a computer to a projector, and display the computer screen over the entire projection screen. (If the connection is completed, and input is via network.)

1 **Press the [MULTI-LIVE] button on the remote control to turn the projection screen into a full screen display (the status when no index window (small screens) is displayed). (See page 31)**

If you press the [MULTI-LIVE] button once or twice when index windows are displayed on the projection screen, the screen will switch over to a full screen display.

> **Note**
>
> The live mode cannot be displayed if the index window is being displayed.

2 **Check the status indication on the launcher to make sure that transmission is possible (⇨🔲). (See page 28)**

3 **Click [🔵].**

The launcher menu will appear.

4 **Click [Live Mode] in the launcher menu.**
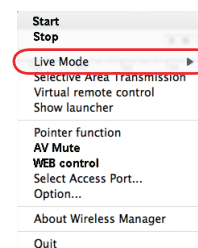
5 **Click [Full screen].**

6 **Click [▶] on the launcher.**

The current computer screen is transmitted to the selected projector. In the live mode the projector is occupied by a single computer, so operations from other computers are not possible.
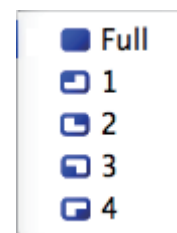
> **Notes**
>
> • Picture quality or other options can be set on the <Option> window by clicking [Option] in the launcher menu. (See page 43)
> • For presentations in live mode, the [PAGE ▲▼] buttons on the remote control will function in the same way as the computer's Page Up and Page Down keys. This means that if you run a computer application that supports the Page Up and Page Down keys, the presentation screen can be changed using the remote control.
> • Some portions of images are not projected under some applications (Microsoft Office Assistant, IME Bar, animation and locus of the mouse cursor, and others).
> • If the connection error occurs during projection, the message ["Live Mode" is deactivated] will appear. Check the communication environment, then restart projection by clicking launcher buttons.
> • Set the [LIVE MODE CUT IN] of the unit to [ON] in advance to enable a different computer to interrupt and project images in live mode. (See page 53)

■Quitting live mode

Click [🔲] on the launcher.

Various projection methods (cont.)

Multi Live Mode

Switching from one style to another

Multi live mode has "4-screen multi style", "4-screen index style" and "16-screen index style".

■**How to operate**
Press the [MULTI-LIVE] button of the remote control to change the style.

• 4-screen multi style (See page 32)
Set the projector to a full screen display. Assign an area of one quarter of the projector screen to each of up to four computers, and project images on the projector screen.

[MULTI-LIVE] button

• 4-screen index style (See page 33)
Display the indexes (small screens) of up to four computer screens, and make one of these screens an enlarged display. You can also temporarily switch over to a full screen display.

[MULTI-LIVE] button

[MULTI-LIVE] button

• 16-screen index style (See page 35)
Display the indexes of up to 16 computer screens. You can also temporarily switch over one of these screens to a full screen display.
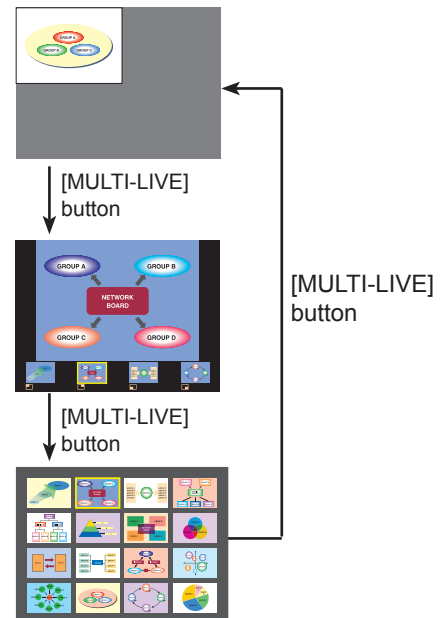
Notes
• When the projector starts up, it resumes in the current style the last time the projector was turned off.
• When transferring to the Live mode, first select the 4-screen multi style, and then click [▶] on the computer.
• If you switch over to a 4-screen multi style when five or more computers are connected in a 16-screen index style, the connections to the fifth and higher numbered computers will be nullified.
• You cannot use the "MULTI-LIVE" button on the remote control when in full screen display.

Various projection methods (cont.)

Connect up to four computers to one projector, and then divide the projector screen into four parts, and simultaneously display the screens for the four computers on the projector screen. (If the connection is completed, and input is via network.)

1 **Press the [MULTI-LIVE] button on the remote control to turn the projection screen into a full screen display (the status when no index window (small screens) is displayed). (See page 31)**

If you press the [MULTI-LIVE] button once or twice when index windows are displayed on the projection screen, the screen will switch over to a full screen display.

2 **Check the status indication on the launcher to make sure that transmission is possible ( ). (See page 28)**

3 **Click [ ].**

The launcher menu will appear.

4 **Click [Live Mode] in the launcher menu.**

The window shown to the right appears.

5 **Select and click the projection position.**

6 **Click [ ] on the launcher.**

The computer image is transmitted to the selected quarter of the projection screen.

■ **Switching to a different position**

Select and click a different projection position in step 4 above.

■ **Enlarged display**

If [Live Mode] – [Full Screen] is clicked in the launcher menu, projector screens temporarily change to full screen display. To return to the original display, click [Live Mode] on the launcher and select original projection positions with each computer.

■ **Quitting 4-screen multi-live**

Click [ ] on the launcher.

Notes

• Picture quality or other options can be set on the <Option> window by clicking [Option] in the launcher menu. (See page 43)

• If the connection error occurs during projection, the message ["Live Mode" is deactivated] will appear. Check the communication environment, then restart projection by clicking launcher buttons.

Various projection methods (cont.)

4-screen index style

When the projector is set to "4-screen index style", connect up to 4 computers to one projector, and then simultaneously display the screens for the 4 computers on the index windows and also on a large screen. (If the connection is completed, and input is via network.)

1 Press the [MULTI-LIVE] button of the remote control to switch the projection screen to "4-screen index style". (See page 31)

2 Check the status indication on the launcher to make sure that transmission is possible (⇨⏺). (See page 28)

3 Click [◀].
The launcher menu will appear.

4 Click [Live Mode] in the launcher menu.

5 Select and click the projection position.

6 Click [▶] on the launcher.
The computer image is transmitted to the area of corresponding window.

1   2   3   4
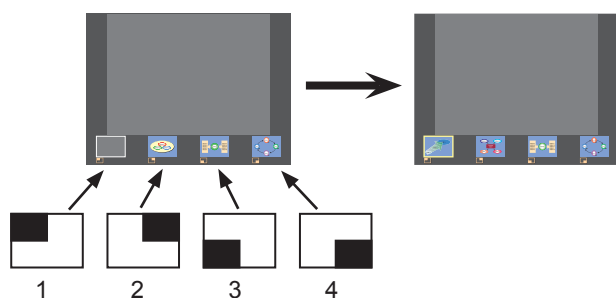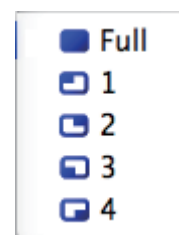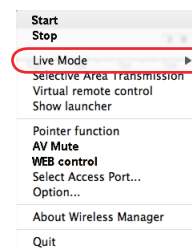
Various projection methods (cont.)

■Enlarged display

• Use the [◄ ►] buttons on the remote control to move the focus (yellow box) to the image to be enlarged, and press the [ENTER] button.
  The image is enlarged and displayed at the top of the projection screen.
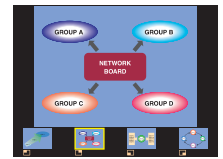
• The image display will fill the entire screen if the [ENTER] button is pressed again.

• To return to the 4-screen index style, press the [ENTER] button again.
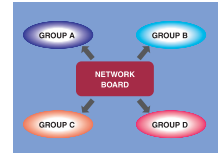
Notes

• While an enlarged image is displayed, the [PAGE ▲ ▼] buttons on the remote control will function in the same way as the computer's Page Up and Page Down keys. This means that if you run a computer application that supports the Page Up and Page Down keys, the presentation screen can be changed using the remote control.
• Picture quality or other options can be set on the <Option> window by clicking [Option] in the launcher menu. (See page 43)
• If the connection error occurs during projection, the message ["Live Mode" is deactivated] will appear. Check the communication environment, then restart projection by clicking launcher buttons.

■Quitting the 4-screen index style projection

Click [▣] on the launcher.

Note

In the 4-screen index style, the status display lamp remains lit green (▣).
Other computers can send images only to the windows which are not being used.

Various projection methods (cont.)

16-screen index style

When the projector is set to "16-screen index style", connect up to 16 computers to one projector, and simultaneously display the screens for the 16 computers on index windows and also on a large screen.
(If the connection is completed, and input is via network.)

1 **Press the [MULTI-LIVE] button of the remote control to switch the projection screen to "16-screen index style". (See page 31)**

2 **Check the status indication on the launcher to make sure that transmission is possible (⇨📷). (See page 28)**

3 **Click [▶] on the launcher.**

The computer images are automatically sent to the empty windows on the 16-screen display.
Display position is not selectable.

■Enlarged display

• Use the [◄ ►▲ ▼] buttons on the remote control to move the focus (yellow box) to the image to be enlarged and press [ENTER] to expand that image to fill the display.
• Press [ENTER] again to return to the 16-screen index style.
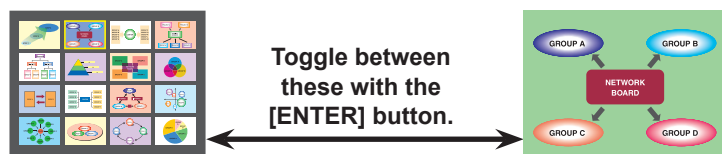
Toggle between these with the [ENTER] button.

Notes

• While an enlarged image is displayed, the [PAGE ▲ ▼] buttons on the remote control will function in the same way as the computer's Page Up and Page Down keys. This means that if you run a computer application that supports the Page Up and Page Down keys, the presentation screen can be changed using the remote control.
• Picture quality or other options can be set on the <Option> window by clicking [Option] in the launcher menu. (See page 43)
• If the connection error occurs during projection, the message ["Live Mode" is deactivated] will appear. Check the communication environment, then restart projection by clicking launcher buttons.

■Quitting the 16-screen index style projection

Click [▣] on the launcher.

Various projection methods (cont.)

Multiple Source Live Mode

You can simultaneously project one computer's screen on up to 8 projectors.

Note

Can be displayed in projectors that have a network number of [1]-[4] or [USER1]-[USER4].

1 **Press the [MULTI-LIVE] button on the remote control to turn the projection screen into a full screen display (the status when no index window is displayed). (See page 31)**

If you press the [MULTI-LIVE] button once or twice when index windows are displayed on the projection screen, the screen will switch over to a full screen display.

2 **Click [◀].**

The launcher menu will appear.

3 **Click [Select Access Port] in the launcher menu.**

(When controlling multi-live in the search screen)

4 **Click [1-4/U] in the setting menu.**

<Projector Search> window – [1-4/U] is displayed.
If the setting menu is not displayed, click [Setting ▶].

5 **Click [ ].**

6 **Select the network number of the desired projectors. (See page 48)**

Projectors powered on in the chosen network group are listed.

7 **Select the desired projectors, and click [Connect].**

Selected projectors are displayed in blue.
To select a continuous range of projectors, click the first projector, and then click the last projector while holding down the Shift key. To select multiple projectors that are not next to each other, click each projector while holding down the Command key.
If click [Connect], the connection with the projectors is established.

Various projection methods (cont.)

8 **Check the status indication on the launcher to make sure that transmission is possible (⇨📷). (See page 28)**
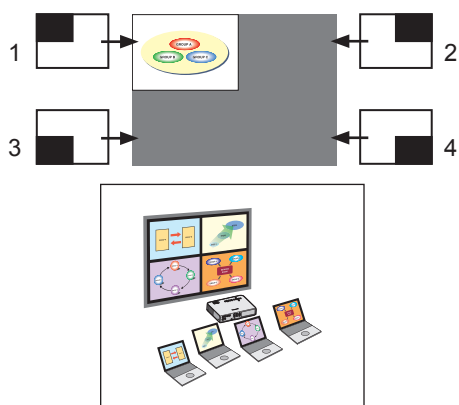
9 **Click [▶] on the launcher.**

The same image is provided for all the projectors selected in step 7.

Notes

• Projection is provided in multi-live mode for the projector having the same network number that is selected on the PC.
• Among the selected projectors, if there is one to which other PC is transmitting data or of which the projection screen is not set to full-screen, projection is provided for that one.
• The greater the number of projectors, the slower the transmission.
• Picture quality or other options can be set on the <Option> window by clicking [Option] in the launcher menu. (See page 43)
• Sound cannot be output in the multiple source live mode.
• If the connection error occurs during projection, the message [“Live Mode” is deactivated] will appear. Check the communication environment, then restart projection by clicking launcher buttons.
• Set the [LIVE MODE CUT IN] of the unit to [ON] in advance to enable a different computer to interrupt and project images in live mode. (See page 53)

■Quitting multiple source live mode

Click [■] on the launcher again.

Various projection methods (cont.)

Multiple Source Multi Live Mode

Connect up to 4 computers to each of up to 8 projectors, and project in each projector by the 4-screen multi style.

> **Note**
>
> Can be displayed in projectors that have a network number of [1]-[4] or [USER1]-[USER3].

1 **Press the [MULTI-LIVE] button on the remote control to turn the projection screen into a full screen display (the status when no index window is displayed). (See page 31)**

If you press the [MULTI-LIVE] button once or twice when index windows are displayed on the projection screen, the screen will switch over to a full screen display.

2 **Click [◀].**

The launcher menu will appear.

3 **Click [Select Access Port] in the launcher menu.**

(When controlling multi-live in the search screen)

4 **Click [1-4/U] in the setting menu.**

<Projector Search> window – [1-4/U] is displayed.
If the setting menu is not displayed, click [Setting ►].

5 **Click [ ].**

6 **Select the network number of the desired projectors. (See page 48)**

Projectors powered on in the chosen network group are listed.

7 **Select the desired projectors, and click [Connect].**

Selected projectors are displayed in blue.
To select a continuous range of projectors, click the first projector, and then click the last projector while holding down the Shift key. To select multiple projectors that are not next to each other, click each projector while holding down the Command key.
If click [Connect], the connection with the projectors is established.

Various projection methods (cont.)

8 Check the status indication on the launcher to make sure that transmission is possible ( ). (See page 28)

9 Click [ ].
The launcher menu will appear.
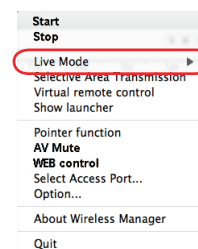
10 Click [Live Mode] in the launcher menu.

11 Select and click the projection position.

12 Click [ ] on the launcher.
The computer image is transmitted to the selected quarter of the projection screen.
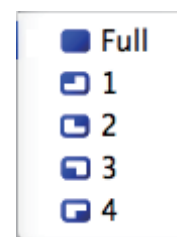
■**Switching to a different position**
Select and click a different projection position in step 11 above.

■**Enlarged display**
If [Live Mode] – [Full Screen] are clicked in the launcher menu, projector screens temporarily change to full screen display. To return to the original display, click [Live Mode] on the launcher and select original projection positions with each computer.

■**Quitting multiple source multi live mode**
Click [ ] on the launcher.

Notes
- Projection is provided in multi-live mode for the projector having the same network number that is selected on the PC.
- From the selected projectors, if LB20NT/30NT is included in the selection, or if one of the projectors is not set to full screen for the projection screen, this does not operate.
- The greater the number of projectors, the slower the transmission.
- In multiple source multi live mode even when the remote projector [MULTI-LIVE] button is pressed no operation will result.
- Picture quality or other options can be set on the <Option> window by clicking [Option] in the launcher menu. (See page 43)
- If the connection error occurs during projection, the message ["Live Mode" is deactivated] will appear. Check the communication environment, then restart projection by clicking launcher buttons.

Useful Functions

Selective Area Transmission

By using the selective area window, you can specify the necessary information alone from the computer screen, and display it on the projection screen.

1 **Click [ ].**

The launcher menu will appear.
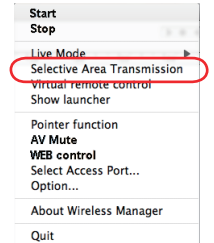
2 **Click [Selective Area Transmission] in the launcher menu.**

The range selection screen is displayed.

3 **With the left mouse button held down, surround the area you want to send to the projector.**

Selective area window (green) appears on computer screen.
You can perform operations in the selective area window with the same operation for moving or changing the window on the computer screen.
• If clicking [ ], the selective area window changes to its default size.
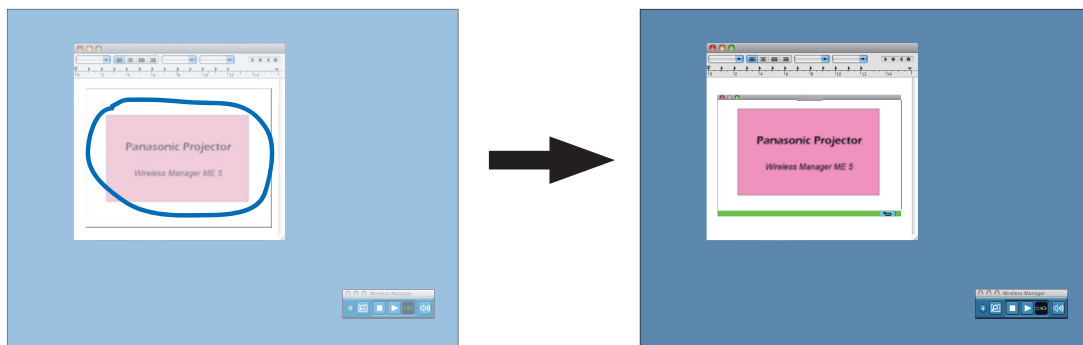
Note

If you have drawn a straight line, a selective area window is displayed in the diagonal direction from your line.

4 **Check the status indication on the launcher to make sure that transmission is possible ( ). (See page 28)**

5 **Click [ ] on the launcher.**

The picture in the selective area window is projected.

Note

The picture inside the selective area window is displayed as big as possible with keeping the original aspect ratio to be fit for the resolution of projection screen.

■ Quitting selective area transmission

Click [Selective Area Transmission] in the launcher menu. Alternatively, the selective area transmission function is exited when the selective area window is closed.

Useful Functions (cont.)

AV Mute function

Blanks the screen for a moment.

1 **Click [◀].**

The launcher menu will appear.

2 **Click [AV Mute] in the launcher menu.**

The image is turned off.
Audio output also goes out.

3 **Click [AV Mute] in the launcher menu again.**

[AV Mute] is disengaged.

```
Start
Stop
Live Mode              ▶
Selective Area Transmission
Virtual remote control
Show launcher

Pointer function
AV Mute
WEB control
Select Access Port...
Option...

About Wireless Manager

Quit
```
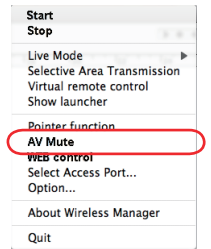
Note

The shutter function is available only in live mode or in multiple source live mode.

Pointer function

You can change the shape of the pointer appearing on the projection screen in live mode or multiple source live mode to one that can be used for presentation purposes.

Click [Pointer] in the launcher menu.

■**Quitting Pointer function**

Click [Pointer] in the launcher menu again.

Useful Functions (cont.)

List of connectable projectors/available functions in each projection method

Wireless Manager ME 5.5 can be used when connected to the following projectors.

■ Connectable projectors

Projectors	Easy setup			Network Adapter		WEB control
	S-MAP	1-4/U	PC Search	Wired LAN	Wireless LAN	
PT-F300NT/PT-FW300NT	✓	✓	✓	✓	✓	✓
PT-LB80NT/PT-LW80NT	✓	✓	✓	×	✓	✓
PT-F200NT/PT-F100NT/PT-FW100NT	×	✓	✓	✓	✓	✓
PT-LB51NT	×	✓	✓	×	✓	✓
TH-LB50NT/TH-LB55NT/TH-LB60NT	×	✓	✓	×	✓	✓

✓= Yes, ×= No

> **Note**

The displayed screen, name and operation vary depending on the type of projectors. For detailed setting, see the operation manual for your projector.

■ List of available functions in each projection method

When using PT-F300N/PT-FW300NT/PT-LB80NT/PT-LW80NT/PT-F200NT/PT-F100NT/PT-FW100NT/PT-LB51NT/TH-LB50NT/TH-LB55NT/TH-LB60NT		Selective area transmission	AV Mute	Pointer
When connected to one projector	Live Mode	✓	✓	✓
	Multi Live Mode	✓	×	×
When connected to multiple projectors	Multiple Source Live Mode	✓	✓	✓
	Multiple Source Multi Live Mode	✓	×	×

✓= Yes, ×= No

> **Notes**

• Sound can be output only in live mode. (See page 43)
• Sound is not output when multiple projectors are connected.

Setting options

You can make various settings related to Wireless Manager ME 5.5.

Setting options

1 **Click [◀].**

The launcher menu will appear.
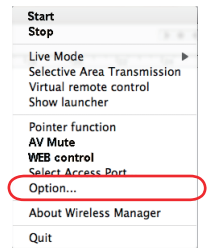
2 **Click [Option] in the launcher menu.**

The <Option> window shown to the right appears.

3 **Click the desired tab to be set.**

4 **Click [OK].**
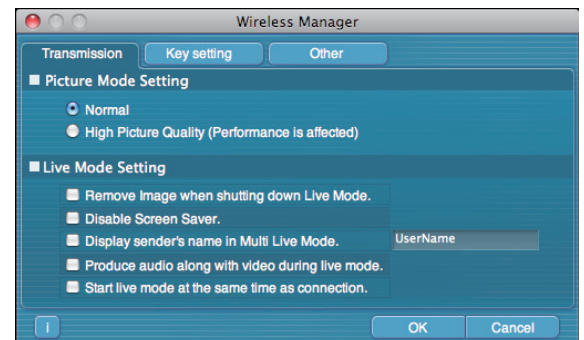
Transmission

■Resolution

Select the quality of the image transmitted from the computer to the projector.

■Live Mode Settings

• [Remove image when shutting down Live Mode]
  Set this if you want to make images on the projector cleared at the end of live mode.

• [Disable Screen Saver]
  This disables the computer screen saver function while Wireless Manager ME 5.5 is operating. Check this box to disable screen saver operation during live mode.

• [Display sender's name in Multi Live Mode]
  The characters (max. 8) which have been entered are displayed at the upper right of the transmitted screen.
  In the 4-screen and 16-screen index style modes, they are also displayed at the bottom of each image.
  (Alphanumerics are not displayed when the check mark has been removed.)

• [Produce audio along with video during Live Mode]
  You can set this when you want to output audio data from a projector in live mode. Furthermore, the launcher audio settings are only effective when sound is output from the projector.
  Sound can be output only in live mode.

• [Start Live Mode at the same time as connection]
  Projection starts when the connection is made without having to click the live button.

  (Note)

If you leave your PC unattended, note that a password-protected screensaver will be disabled, if [Disable screensaver] option is enabled.

Setting options (cont.)

Key setting

You can set shortcut key combinations that let you control the Wireless Manager ME 5.5 functions by computer keyboard operations.

1 **Select the mode or the function to be set for the shortcut key, and click it.**

2 **Select one from [Cmd], [Opt], [Shift] and [Ctrl]. (Multiple selections can be made)**

3 **Select one alphabet to be used with the key chosen in step 2.**

4 **Click [Setting].**
The shortcut key set in step 2 - 3 appears in the blank space.
If click [Clear], the shortcut settings are canceled.
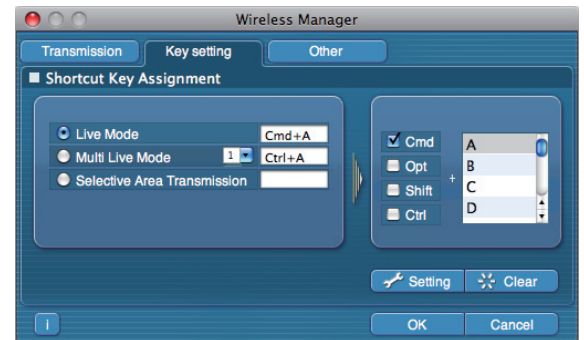
Note

In Live Mode and Multi Live Mode, the shortcut key switches the mode without stopping Live Mode.

Setting options (cont.)

Other

■Setting Favorites

It is possible to assign a different name to connected projectors.
When connected, a field is displayed at the bottom of the
<Projector Search> window.

■Automatic connection setting

You can perform automatic settings for newly connected
projectors.

• If the [Make an automatic connection] box is checked and a projector is registered as a
destination for automatic connection when Wireless Manager ME 5.5 is started, <Projector
Search> window does not appear and connection is performed automatically.
• When [Setting] is clicked, <Access Log> window appears and you can select projector(s)
for automatic connections.
Up to 10 projectors may be displayed in the order of most recent connection history.
When it is desired to remove a projector from the display list, select it and press the
[DELETE] → [OK] button.
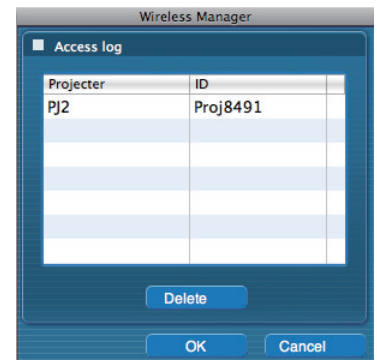
■User settings

• User name
When [Setting] is clicked, the <User name setting> window to the right appears.
Specify the icon and user name shown on the <Projector Search> window ([S-MAP],
[1-4/U]).

> **Note**
> Enter the user name in up to 8 alphanumerics.

• Favorites Button
Assign whichever function you like to a specific launcher button. (See page 28)

: [Select Access Port]		: [WEB control]	
: [Option]		: [AV Mute]	
: [Selective Area Transmission]		: [Virtual remote control]	
: [Favorite]			

• Adaptors
Set the adaptor that is used normally. (Wireless/wired LAN adaptor).

Version information

The version information of Wireless Manager ME 5.5 is displayed when [i] on the <Option> window is clicked.

45

Network/Security setting of the projector

When making a connection between a computer and a projector with settings other than the default settings, perform the procedure below to display the menu required when changing the initial settings. For detailed setting, see the operation manual for your projector.

Displaying the Network Menu

1 **Press the [MENU] button on the projector.**

The main menu appears.

PICTURE		
POSITION		
LANGUAGE		
DISPLAY OPTION		
PROJECTOR SETUP		
SECURITY		
NETWORK		

PICTURE MODE	DYNAMIC
CONTRAST	0 |− — ! — +|
BRIGHTNESS	0 |− — ! — +|
COLOR	0 |− — ! — +|
TINT	0 |− — ! — +|
SHARPNESS	0 |−! — — +|
COLOR TEMPERATURE	DEFAULT
DAYLIGHT VIEW	AUTO
DIGITAL CINEMA REALITY	ON
NOISE REDUCTION	OFF
TV-SYSTEM	AUTO

SELECT • RETURN ENTER
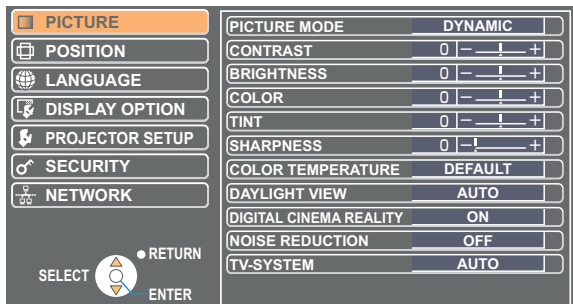
2 **Select [NETWORK] with the [▲▼] buttons.**

The network menu appears.

PICTURE		
POSITION		
LANGUAGE		
DISPLAY OPTION		
PROJECTOR SETUP		
SECURITY		
NETWORK		

WIRED LAN	
WIRELESS LAN	S-MAP
NAME CHANGE	
PASSWORD	OFF
PASSWORD CHANGE	
NETWORK STANDBY	OFF
NETWORK CONTROL	ON
LIVE MODE CUT IN	OFF
COMPUTER SEARCH	
MULTI-LIVE	
STATUS	
INITIALIZE	

SELECT • RETURN ENTER
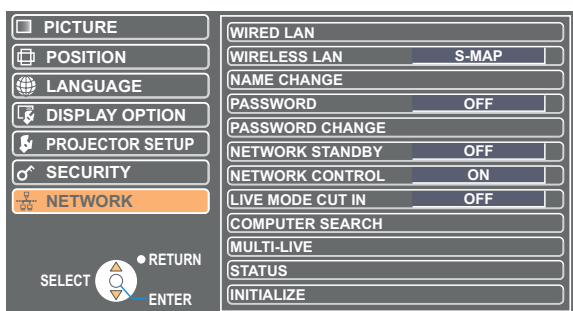
<div style="background-color:pink;">**Notes**</div>

• The screen shown above is an example of PT-FW300NTE.
• Depending on the signals which are input to the projector, it may not be possible to adjust some of the items and use some of the functions. In the case of an item that cannot be adjusted or a function that cannot be used, the corresponding on-screen item will not be displayed, and you will not be able to execute it even when you press the [ENTER] button.
• The displayed screen, name and operation vary depending on the type of projectors.

Network/Security setting of the projector (cont.)

Wired LAN settings

You can make detailed wired LAN settings.

Select [WIRED LAN] at the network menu and click the [ENTER] button.
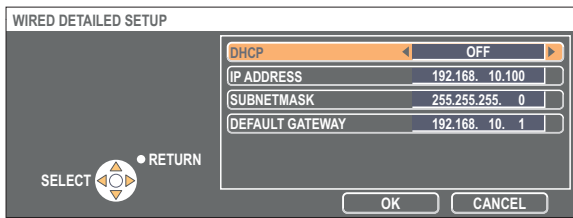
```
WIRED DETAILED SETUP

            DHCP              ◄        OFF        ►
            IP ADDRESS             192.168.  10.100
            SUBNETMASK            255.255.255.   0
            DEFAULT GATEWAY      192.168.  10.   1

              ● RETURN
    SELECT ◄○▷
    ▽
                              OK        CANCEL
```

DHCP※:
  ON: If a DHCP server exists in the network to which the projector is connected, the IP address will automatically be
        acquired.
  OFF: If a DHCP server does not exist in the network to which the projector is connected, additionally set [IP ADDRESS※],
        [SUBNETMASK※] and [DEFAULT GATEWAY※].

※ "Glossary" (See page 64)

Note
A wired LAN and wireless LAN cannot be used in the same segment.

Default wired LAN settings

The following wired LAN settings are set before the projector leaves the factory.

  DHCP   : OFF

  IP ADDRESS   : 192.168.10.100

  SUBNETMASK   : 255.255.255.0

  DEFAULT GATEWAY : 192.168.10.1

Network/Security setting of the projector (cont.)

Setting network number (for wireless LAN)

1 Select [WIRELESS LAN] at the network menu.

2 Select the number to be connected with the [◀ ▶] buttons.

PICTURE		WIRED LAN	
POSITION		WIRELESS LAN	◀ S-MAP ▶
LANGUAGE		NAME CHANGE	
DISPLAY OPTION		PASSWORD	OFF
PROJECTOR SETUP		PASSWORD CHANGE	
SECURITY		NETWORK STANDBY	OFF
NETWORK		NETWORK CONTROL	ON
		LIVE MODE CUT IN	OFF
		COMPUTER SEARCH	
RETURN		MULTI-LIVE	
SELECT		STATUS	
ENTER		INITIALIZE	
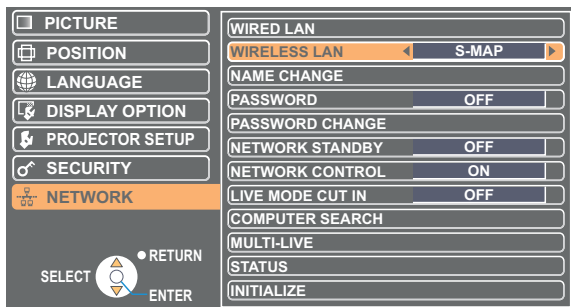
• Network number
  Off, [S-MAP], [1]-[4], [USER1]-[USER3]

> **Note**
> Selecting [DISABLE] disables the wireless LAN.

[USER] settings

You can configure more precise network settings, if you select from [USER1] to [USER3] (user) for [Wireless LAN] in the network menu. For network settings, contact your network administrator.

Setting IP

■ **How to display IP address setting menu**
Press [WIRELESS LAN]→[USER1] - [USER3]→[ENTER] at the network menu.
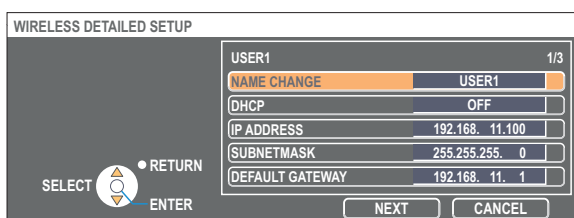
WIRELESS DETAILED SETUP		
USER1		1/3
NAME CHANGE	USER1	
DHCP	OFF	
IP ADDRESS	192.168. 11.100	
SUBNETMASK	255.255.255. 0	
DEFAULT GATEWAY	192.168. 11. 1	
SELECT RETURN ENTER	NEXT	CANCEL

DHCP※:
   ON: If a DHCP server exists in the network to which the projector is connected, the IP address will automatically be acquired.
   OFF: If a DHCP server does not exist in the network to which the projector is connected, additionally set [IP ADDRESS※], [SUBNETMASK※] and [DEFAULT GATEWAY※].

※ "Glossary" (See page 64)

> **Note**
> A wired LAN and wireless LAN cannot be used in the same segment.

Network/Security setting of the projector (cont.)

Wireless settings

Select [NEXT] on the IP address setting window to switch to the wireless setting window.
Make the settings related to the wireless connection between the projector and the network.

```
DETAILED SETUP
┌─────────────────────────────────────────────────┐
│ USER1                                        2/3 │
│ SSID           Panasonic Projector               │
│ MODE                        AD HOC               │
│ AUTHENTICATION              OPEN                 │
│ ENCRYPTION                  NONE                 │
│ CHANNEL                     1                    │
│        ● RETURN                                  │
│ SELECT     ◇                                     │
│        ● ENTER   [ RETURN ] [ NEXT ] [ CANCEL ]  │
└─────────────────────────────────────────────────┘
```

■ SSID※ : If the mode is [INFRASTRUCTURE※], enter the SSID registered at the access point. If the mode is [AD HOC], enter the same character string as that of SSID set on the computer to be connected.

> **Note**
> SSID has to be entered in lower-case alphanumeric letters.

■ MODE : Select [AD HOC] or [INFRASTRUCTURE].
AD HOC※ : Connect projector and computer directly without access point.
INFRASTRUCTURE※ : Connect through access point.

■ AUTHENTICATION : Set the user authentication method used by the network to be connected.
OPEN : Select when making a connection using [AD HOC], or when the access point authentication method is OpenSystem※.
SHARED : Select when making a connection using [AD HOC], or when the access point authentication method is Shared Key※.
WPA-PSK※ : Select when the access point authentication method is WPA-PSK.
WPA2-PSK※ : Select when the access point authentication method is WPA2-PSK.

■ ENCRYPTION : Select the encryption method to be used for communication between the projector and the network.
NONE : Select when transmit without encryption. It is selectable only when [AUTHENTICATION] is [OPEN] or [SHARED].
WEP※ : Select when ENCRYPTION is WEP.
TKIP※ : Select when ENCRYPTION is TKIP.
Selectable when [AUTHENTICATION] is either [WPA-PSK] or [WPA2-PSK].
AES※ : Select when ENCRYPTION is AES.
Selectable when [AUTHENTICATION] is either [WPA-PSK] or [WPA2-PSK].

※ "Glossary" (See page 65)

> **Notes**
> • If you are unable to connect to the wireless LAN through the access point even after performing the steps in "① Projector settings (See page 22)," contact the manufacturer of the access point.
> • IEEE802.1x is not supported.
> • If you finished entering settings, press [NEXT].

Network/Security setting of the projector (cont.)

Additionally perform the following setting using the [AUTHENTICATION] setting.

```
DETAILED SETUP

         USER1                              3/3
         DEFAULT KEY        ◄        1        ►
         KEY1                    ********
         KEY2                    ********
         KEY3                    ********
         KEY4                    ********
● RETURN
SELECT ◄○►              RETURN    OK    CANCEL
     ▽
```
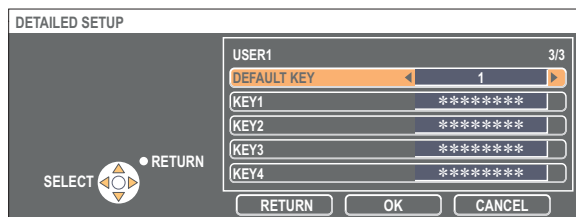
■ When setting [OPEN] or [SHARED] as authentication and setting [WEP※] as the encryption method:
   DEFAULT KEY : Set 1 – 4 numerals for the default key.
   KEY 1 – 4   : Set these to match the WEP key registered in [DEFAULT KEY] and select [OK].
                        Either the 64-bit or 128-bit WEP key can be set. For the 64-bit key, input five alphanumerics (or a 10-digit string for the hexadecimal format) for the 128-bit key, input 13 alphanumerics (or a 26-digit string for the hexadecimal format).
■ When using [WPA-PSK※] or [WPA2-PSK※] : Set key and select [OK].
                        Input either 8 to 63 alphanumerics or a 64 digit string in the hexadecimal format.

※ "Glossary" (See page 65)

> **Note**
>
> Important video/audio data is protected because AES※ encryption processing takes place in advance for all network numbers, even if [ENCRYPTION] is set to [NONE].
> ※ "Glossary" (See page 65)

Default settings of [USER1] - [USER3]

The following settings as [USER1] - [USER3] in the wireless LAN are set before the projector leaves the factory.

SSID	: Panasonic Projector
DHCP	: OFF
IP ADDRESS	: 192.168.11.100
SUBNETMASK	: 255.255.255.0
DEFAULT GATEWAY	: 192.168.11.1
MODE	: AD HOC
AUTHENTICATION	: OPEN
ENCRYPTION	: NONE
CHANNEL	: 11

Network/Security setting of the projector (cont.)

Changing the projector name

You can change the projector name on the network.
It will help to distinguish names in the <Projector Search> window ([S-MAP], [1-4/U]).

1 **Select [NAME CHANGE] at the network menu and press the [ENTER] button.**
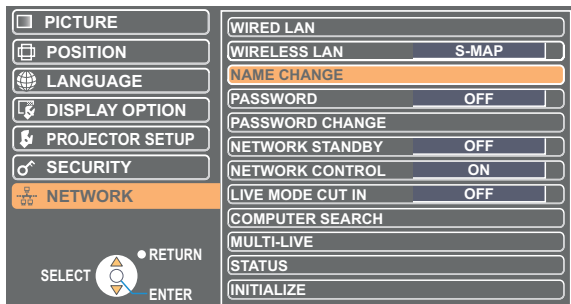
2 **Enter the projector name using the [◄ ► ▲ ▼ ENTER] buttons.**

Select [ALL DELETE] to remove all the entered characters. Press the [DEFAULT] button on the remote control to clear a letter which is selected by the cursor in the entry box.

3 **After entering the projector name, select [OK] and click [ENTER].**

Select [CANCEL] to undo the changes and then press [ENTER].
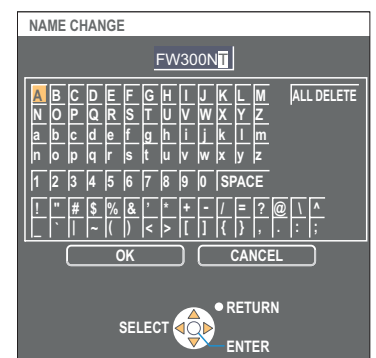
Password setting

This setting is used to limit the users that can connect to the projector.

1 **Select [PASSWORD] at the network menu.**
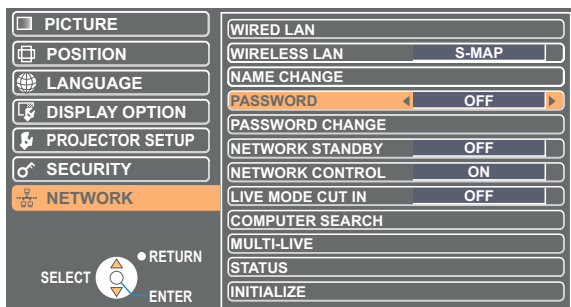
2 **Select [ON] with the [◄ ►] buttons.**

3 **Select [PASSWORD CHANGE] at the network menu and press the [ENTER] button.**
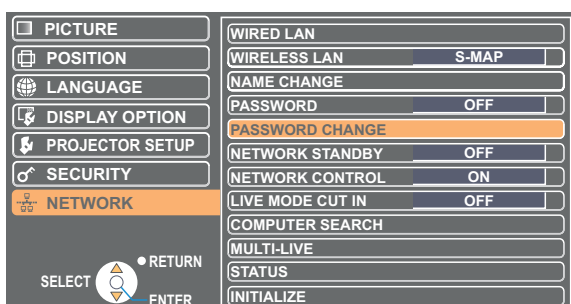
Network/Security setting of the projector (cont.)

4   **Enter the password using the [◄ ► ▲ ▼ ENTER] buttons.**

5   **After entering the password, select [OK] and click [ENTER].**

Select [CANCEL] to undo the changes and then press [ENTER].

> **Note**
>
> It is recommended to change password on a regular basis for keeping it private.
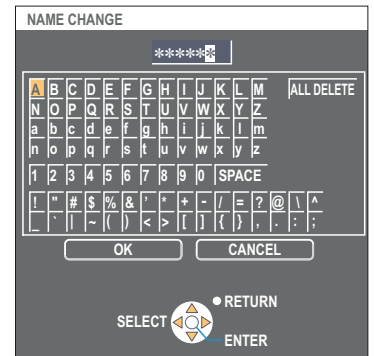
Network standby

Set it to "ON", if you want to turn on the projector in standby mode from the PC that is connected to the network via wired LAN or wireless LAN.

1   **Select [NETWORK STANDBY] at the network menu.**
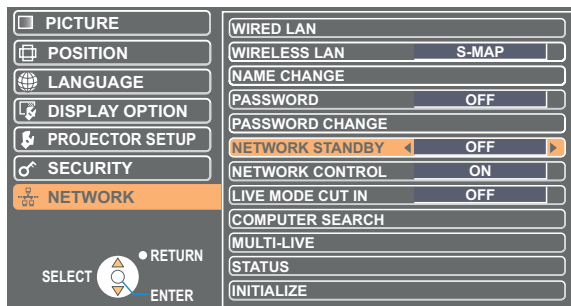
2   **Select [ON] or [OFF] with the [◄ ►] buttons.**

Network control

Set it to "ON", if you want to control the projector from the PC that is network-connected.

1   **Select [NETWORK CONTROL] at the network menu.**
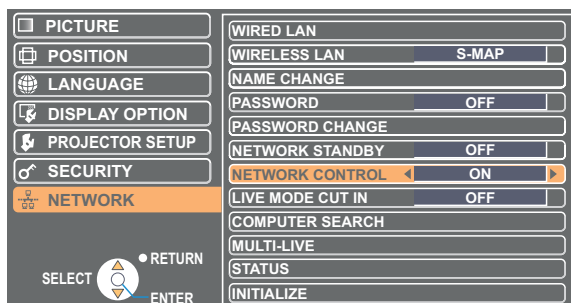
2   **Select [ON] or [OFF] with the [◄ ►] buttons.**

> **Note**

If you turn on [NETWORK CONTROL], "WEB control" is available.

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Network/Security setting of the projector (cont.)

Live mode cut-in

Set it to "ON" if you allow other users on the network to connect in live mode while you are also in live mode.

1 Select [LIVE MODE CUT IN] at the network menu.

PICTURE	WIRED LAN	
POSITION	WIRELESS LAN	S-MAP
LANGUAGE	NAME CHANGE	
DISPLAY OPTION	PASSWORD	OFF
PROJECTOR SETUP	PASSWORD CHANGE	
SECURITY	NETWORK STANDBY	OFF
NETWORK	NETWORK CONTROL	ON
	◄ LIVE MODE CUT IN	OFF ►
	COMPUTER SEARCH	
SELECT ● RETURN ENTER	MULTI-LIVE	
	STATUS	
	INITIALIZE	
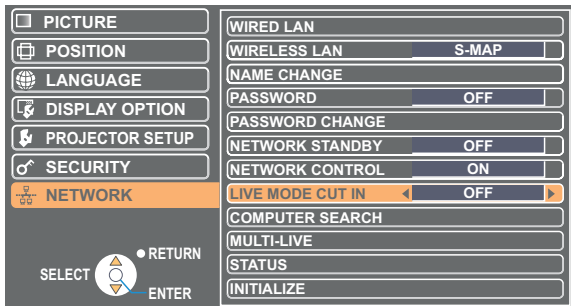
2 Select [ON] or [OFF] with the [◄ ►] buttons.

Computer search

You can perform the same operation as those using the [COMPUTER SEARCH] button on the remote control.

1 Select [COMPUTER SEARCH] from the network menu, and then press [ENTER].

PICTURE	WIRED LAN	
POSITION	WIRELESS LAN	S-MAP
LANGUAGE	NAME CHANGE	
DISPLAY OPTION	PASSWORD	OFF
PROJECTOR SETUP	PASSWORD CHANGE	
SECURITY	NETWORK STANDBY	OFF
NETWORK	NETWORK CONTROL	ON
	LIVE MODE CUT IN	OFF
	COMPUTER SEARCH	
SELECT ● RETURN ENTER	MULTI-LIVE	
	STATUS	
	INITIALIZE	
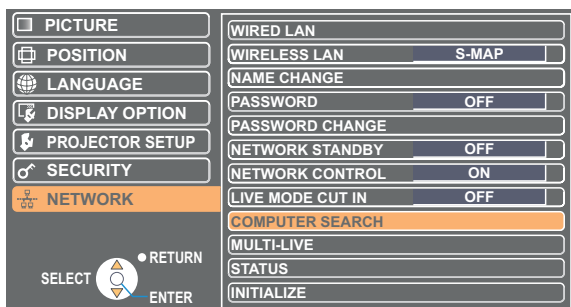
Multi-live

You can perform the same operation in stead of using the [MULTI-LIVE] button on the remote control.

1 Select [MULTI-LIVE] from the network menu, and then press [ENTER].

PICTURE	WIRED LAN	
POSITION	WIRELESS LAN	S-MAP
LANGUAGE	NAME CHANGE	
DISPLAY OPTION	PASSWORD	OFF
PROJECTOR SETUP	PASSWORD CHANGE	
SECURITY	NETWORK STANDBY	OFF
NETWORK	NETWORK CONTROL	ON
	LIVE MODE CUT IN	OFF
	COMPUTER SEARCH	
SELECT ● RETURN ENTER	MULTI-LIVE	
	STATUS	
	INITIALIZE	
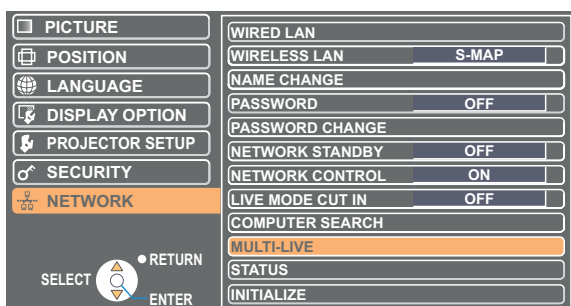
Network/Security setting of the projector (cont.)

Verifying settings

Your current settings appear.

Select [STATUS] at the network menu and press the [ENTER] button.

```
┌─ PICTURE          ┌─ WIRED LAN
├─ POSITION         ├─ WIRELESS LAN        S-MAP
├─ LANGUAGE         ├─ NAME CHANGE
├─ DISPLAY OPTION   ├─ PASSWORD            OFF
├─ PROJECTOR SETUP  ├─ PASSWORD CHANGE
├─ SECURITY         ├─ NETWORK STANDBY     OFF
├─ NETWORK          ├─ NETWORK CONTROL     ON
                    ├─ LIVE MODE CUT IN    OFF
          RETURN    ├─ COMPUTER SEARCH
   SELECT           ├─ MULTI-LIVE
          ENTER     ├─ STATUS
                    └─ INITIALIZE
```
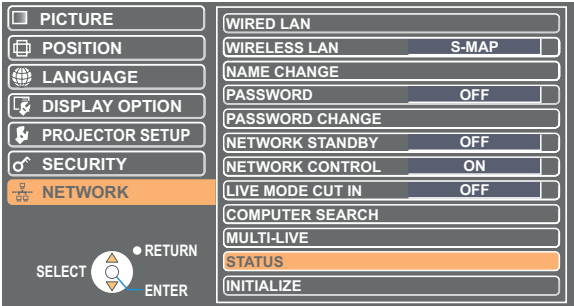
The status of the following will appear.

WIRED LAN

DHCP	"ON" - "OFF"
IP ADDRESS	(See page 47)
SUBNETMASK	(See page 47)
DEFAULT GATEWAY	(See page 47)
MAC ADDRESS	

WIRELESS LAN

ANTENNA LEVEL	(The strength of the connection will appear.)
NETWORK	"S-MAP", "1" - "4", "USER1" - "USER3"
MODE	"AD-HOC" - "INFRASTRUCTURE"
CHANNEL	Refer to page 5 for usable channels.
SSID	(See page 49)
AUTHENTICATION	"OPEN" - "SHARED" - "WPA-PSK" - "WPA2-PSK"
DEFAULT KEY	"-" - "1" - "4"
ENCRYPTION	"NONE" - "WEP" - "TKIP" - "AES"
DHCP	"ON" - "OFF"
IP ADDRESS	(See page 48, 50)
SUBNETMASK	(See page 48, 50)
DEFAULT GATEWAY	(See page 48, 50)
MAC ADDRESS	

Returning to the initial settings

You can reset the network setting to the factory default of the projector.

1 Select [INITIALIZE] at the network menu and press the [ENTER] button.

```
┌─ PICTURE          ┌─ WIRED LAN
├─ POSITION         ├─ WIRELESS LAN        S-MAP
├─ LANGUAGE         ├─ NAME CHANGE
├─ DISPLAY OPTION   ├─ PASSWORD            OFF
├─ PROJECTOR SETUP  ├─ PASSWORD CHANGE
├─ SECURITY         ├─ NETWORK STANDBY     OFF
├─ NETWORK          ├─ NETWORK CONTROL     ON
                    ├─ LIVE MODE CUT IN    OFF
          RETURN    ├─ COMPUTER SEARCH
   SELECT           ├─ MULTI-LIVE
          ENTER     ├─ STATUS
                    └─ INITIALIZE
```
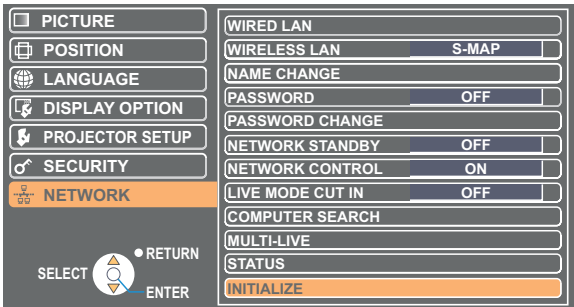
Note

The entry of the password is prompted if [Password setting] is turned [ON] in the [⚲ Security] menu.

2 Select [OK] with the [◄ ►] buttons and press the [ENTER] button.

```
        INITIALIZE

        INITIALIZE

    [ OK ]    [ CANCEL ]

              RETURN
    SELECT
              ENTER
```
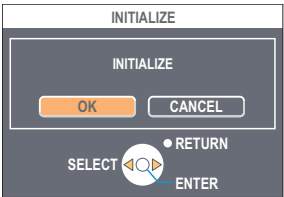
Using WebBrowser

Control a projector through the WebBrowser of a computer. It is called "WEB Control".
(The example is when using Safari.)

Before using the WebBrowser control

Connect the projector and PC with wired or wireless LAN. (See page 13)

① **Projector settings**
Turn [ON] the [NETWORK CONTROL] in the network menu.

1 **Select [NETWORK CONTROL] in the network menu.**

2 **Select [ON] or [OFF] with the [◄ ►] buttons.**
   ON : This enables control on the WebBrowser.
   OFF : This disables control on the WebBrowser.

```
┌──────────────────┐ ┌─────────────────────────────┐
│ ▢ PICTURE        │ │ WIRED LAN                   │
│ ▥ POSITION       │ │ WIRELESS LAN      S-MAP     │
│ ◍ LANGUAGE       │ │ NAME CHANGE                 │
│ ▤ DISPLAY OPTION │ │ PASSWORD           OFF      │
│ ⚙ PROJECTOR SETUP│ │ PASSWORD CHANGE             │
│ ♂ SECURITY       │ │ NETWORK STANDBY    OFF      │
│ ⌘ NETWORK        │ │ NETWORK CONTROL ◄  ON    ►  │
│                  │ │ LIVE MODE CUT IN   OFF      │
│        ●RETURN   │ │ COMPUTER SEARCH             │
│ SELECT ▲         │ │ MULTI-LIVE                  │
│        ▼ ENTER   │ │ STATUS                      │
│                  │ │ INITIALIZE                  │
└──────────────────┘ └─────────────────────────────┘
```
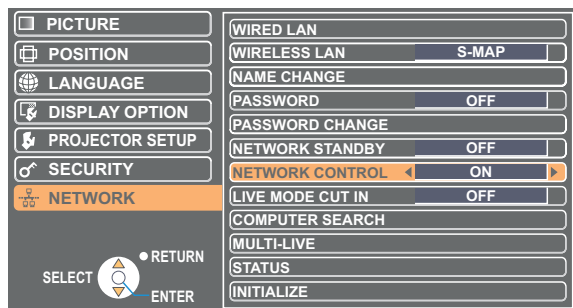
> **Notes**
> • When the projector settings have been changed using a WebBrowser, the projector will not appear on the connection list until the projector network is switched to [USER 1] - [USER 3].
> • After the projector network has been switched to [USER 1] - [USER 3], manually release the proxy settings of the WebBrowser used.

② **Computer settings**

■Proxy server settings
Release the proxy settings of the WebBrowser used.

1 **Click [Preferences] from the [Safari] menu.**
   The <General> window appears.

2 **Click [Change Settings...] next to [Proxies] on the [Advanced] tab.**
   Click [Proxies] and select a proxy server.

3 **If a checkmark appears in the [Web Proxy] checkbox, remove it. If a checkmark appears in the [Automatic Proxy Configuration] checkbox, remove it.**

4 **Click [Apply Now].**
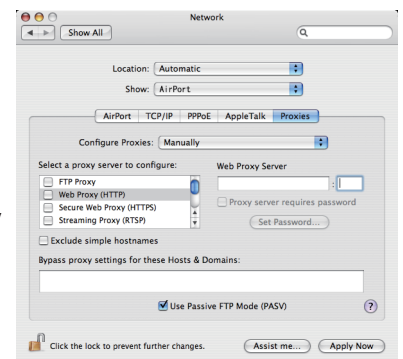
> **Note**
> When the user does not have the [Admin (administrator)] authority, the [Admin (administrator)]'s name and password are required to make network settings.

Using WebBrowser (cont.)

■Enabling JavaScript
If JavaScript has been set to disable, enable it.

1 Open the [Security] tab in Safari.

2 Place a checkmark in the [Enable JavaScript] checkbox next to Web Content.

Accessing from the WebBrowser

1 Select "WEB control" from the launcher menu.
The WebBrowser starts up and the authentication window appears.

<Top window>
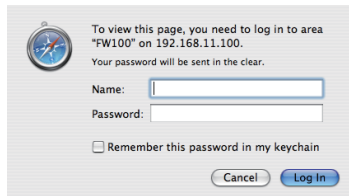
2 Enter the user name and the password.

3 Click [OK].
<Monitored information> window appears. (Next page)

Notes
- The default user mane and password settings are as follows:
  User name: user1 (with user authority) / admin1 (administrator authority)
  Password: panasonic (lower case)
- Administrator authority has full access to the all features. User authority has access to "monitor information", "projector control" and "password change". (User authority has no access to "Detailed setting".)
- Password used in this page is for accessing the web control window. (See page 62)
  This password is different from the password set in page 51 for accessing a projector.
- The system locks for several minutes if an incorrect password is entered three times in succession.
- If you reset the configuration to the factory default or the state of purchase, the password is reset to "panasonic." Change the password to an appropriate one.
- Make sure the password is as hard to guess as possible.
- Change the password periodically.
- If you have forgotten the password, perform [INITIALIZE] in the projector's network menu (See page 54), and set a new one in the "Password change" window of your WebBrowser. (See page 62)
- Panasonic Corporation and its affiliated companies never directly ask customers for their password.
  Do not give out your password even if directly asked by a third-party representing themselves as
  Panasonic Corporation.
- The top window may not appear depending on the WebBrowser. In this case start up WebBrowser again, or press the [Cmd] + [R] keys for example to update the screen.
- Connection cannot be made while the WebBrowser is set to dial-up network. Cancel the dial-up network setting.
- It may take some moments for WebBrowser to start up.
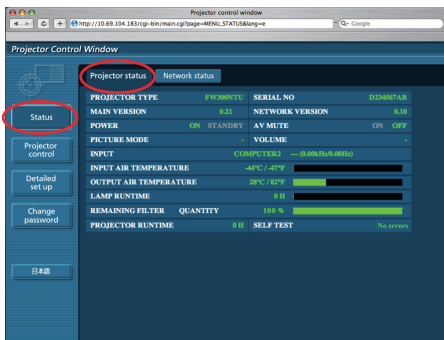
Using WebBrowser (cont.)

This page indicates the projector status.
If you migrate from other pages, click [Monitor information] in the main menu (left of the screen).

■Monitored information

On this window, click the [Status information] tab.

■Network information

On this window, click the [Network status] tab.
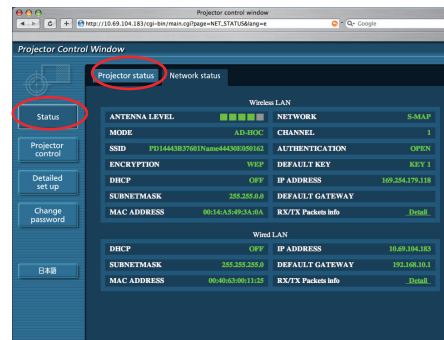
Note

The monitor information is refreshed at fixed intervals, but the current exact information can be checked by clicking [View] → [Refresh].

If [SELF TEST Error (Detail)] appears on the monitored information window, click it to view the error details.
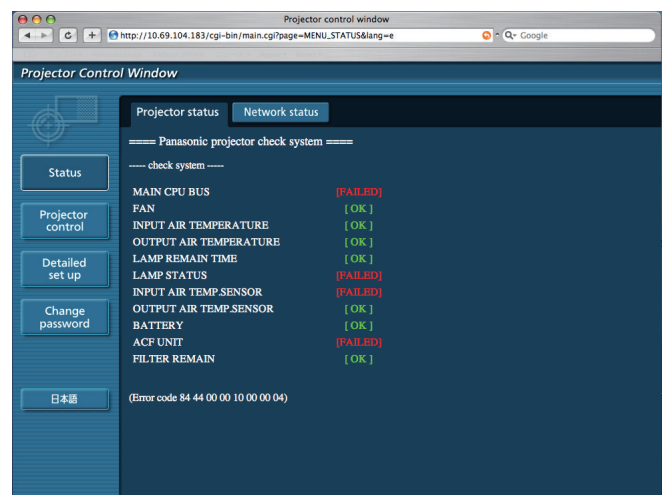
■ If [FAILED] appears

Item	Description
MAIN CPU BUS	There is a problem with a microcontroller circuit. Contact your dealer.
FAN	There is a problem with the fan or fan drive circuit. Contact your dealer.
INPUT AIR TEMPERATURE	Input air temperature is high. The projector is likely being used in a high temperature environment such as near heating equipment.
OUTPUT AIR TEMPERATURE	Temperature surrounding the lamp is high. The exhaust vent is likely blocked.
LAMP REMAIN TIME	The lamp has been used for longer than its rated useful life, and it is time to replace it.
LAMP STATUS	The lamp could not be lit. Allow the bulb of the light source to cool, and then turn on the projector.
INPUT AIR TEMP.SENSOR	There is a problem with the air intake temperature sensor. Contact your dealer.
OUTPUT AIR TEMP.SENSOR	There is a problem with the exhaust temperature sensor. Contact your dealer.
BATTERY	The battery must be replaced. Contact your dealer.
ACF UNIT	Either the ACF unit is not set properly or it does not work. For further detail, see the instruction manual for the projector.
FILTER REMAIN	The remaining filter gets low. For further detail, see the instruction manual for the projector.

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Using WebBrowser (cont.)

Projector control window

You can make various projector settings.
To access this page from other pages, click [Projector control] at the left of the window.

■Basic control window

On this window, click the [Basic control] tab.
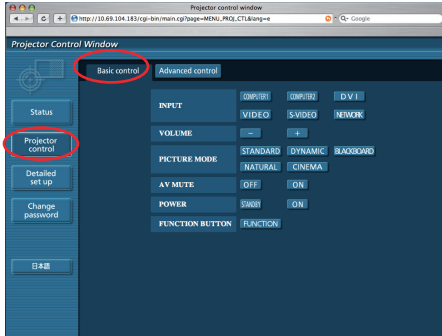
■Advanced control window

On this window, click the [Advanced control] tab.
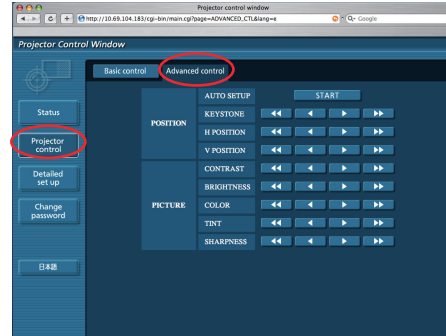
> **Note**
>
> Connection with the projector may not be possible immediately after the power is turned on. In this case wait a bit and then make the connection again.

Using WebBrowser (cont.)

Detailed settings window

You can make detail network settings on projector, when connecting without the administrator authority or when connecting through an access point (infrastructure mode).

■LAN settings

1 **Click [Detailed set up] in the menu.**

2 **Select the items to change and click [Next].**

The settings window appears, showing the current settings.
• To change the LAN settings, click [Change].
• To return to the previous window, click [Back].
Settings in this page are the same when setting [USER 1] - [USER 3] from network menu of the projector. (See page 48)
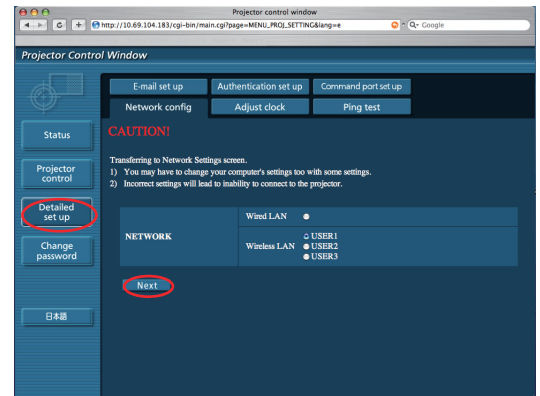
3 **Complete the detailed settings and click [Next].**

When [Next] is clicked, the next page appears, enabling you to complete the detailed settings as desired.
After all required items have been entered, a confirmation window appears.
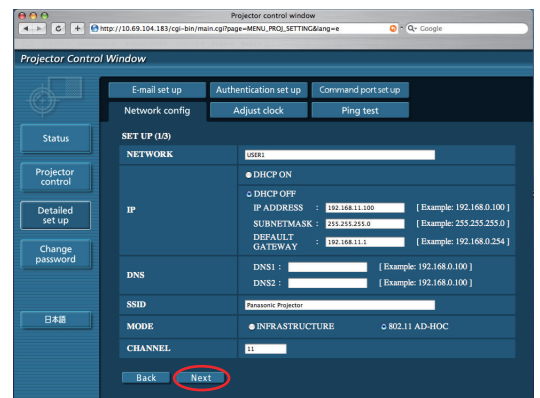
4 **Click [Submit].**

The settings will be registered.
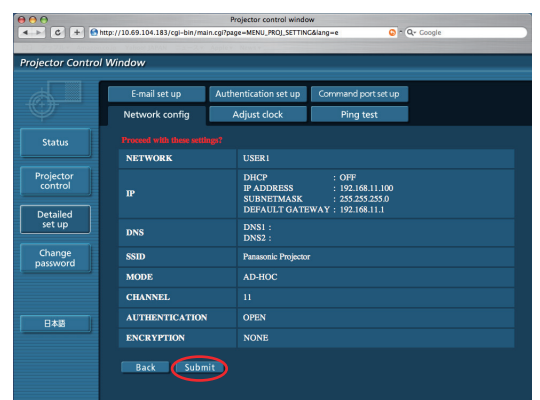
■Making the above settings effective

Select [Network] from the projector's network menu, and use the [◄ ►] button to select the network you have configured and registered here.

Notes

• Important video/audio data is protected because AES※ encryption processing takes place in advance for all network numbers, even if [ENCRYPTION] is set to [NONE]. ※ "Glossary" (See page 65)
• If you have changed the LAN settings that are currently in use, the connection may break off.

Using WebBrowser (cont.)

■Time settings

Click [Detailed set up]→[Adjust clock] in the menu.

Time zone : Select the time zone and click [Set time zone].

Time : Enter the current date and time in [Date] and [Time], and then click [Set date and time].

■Email settings

You can specify two email recipients.
Click [Detailed set up]→[E-mail set up] in the menu.

- [MAIL SERVER]
  ENABLE : Enable or disable email transmission.
  SMTP SERVER NAME : Enter the SMTP server name.

- [MAIL OPTION]
  MAIL FROM : Enter the sender's email address.
  MEMO : Enter a description of the sender.

- [TEMPERATURE WARNING SET UP]
  MINIMUM TIME : Enter the interval for sending email.
  INPUT AIR TEMPERATURE : Select the temperature of the intake sensor at which to send a warning message.

- [E-MAIL ADDRESS]
  E-MAIL ADDRESS : Enter the email addresses of the recipients.
  MAIL CONTENTS : Change the type of message as desired. When sending messages to mobile phones, select "SIMPLE."
  ERROR : Select ON to send email when errors occur.
  LAMP RUNTIME : Select ON to send email when "at REMAIN" is reached.
  FILTER REMAINING TIME : Select ON to send email when "at REMAIN" is reached.
  INPUT AIR TEMPERATURE : Select ON to send email when the temperature set in [TEMPERATURE WARNING SET UP] is exceeded.
  PERIODIC REPORT : Send a message with the projector status at the selected date and time.

When [submit] is clicked, the settings are applied.

■Connection test

You can confirm if a network connection is established with Mail server, POP server, DNS server or the like.
Click [Detailed setup] → [Ping test] from the network main menu.

Destination IP address: Enter the IP address of the server you want to test, and then click [Submit].
If succeeded in connection, the following display appears.

```
PING 198.245.80.10 (198.245.80.10): 58 data bytes
64 bytes from 198.245.80.10: icmp_seq=0 ttl=255 time=0.7 ms
64 bytes from 198.245.80.10: icmp_seq=1 ttl=255 time=0.4 ms
64 bytes from 198.245.80.10: icmp_seq=2 ttl=255 time=0.4 ms
64 bytes from 198.245.80.10: icmp_seq=3 ttl=255 time=0.4 ms

--- 198.245.80.10 ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 0.4/0.4/0.7 ms
```

If failed in connection, the following display appears.

```
PING 198.245.80.100 (198.245.80.100): 56 data bytes

--- 198.245.80.100 ping statistics ---
4 packets transmitted, 0 packets received, 100% packet loss
```
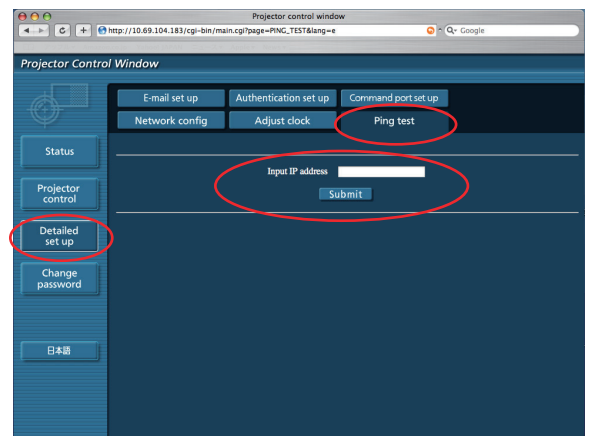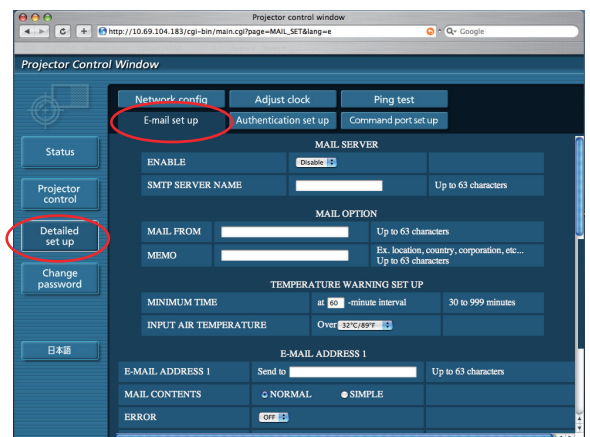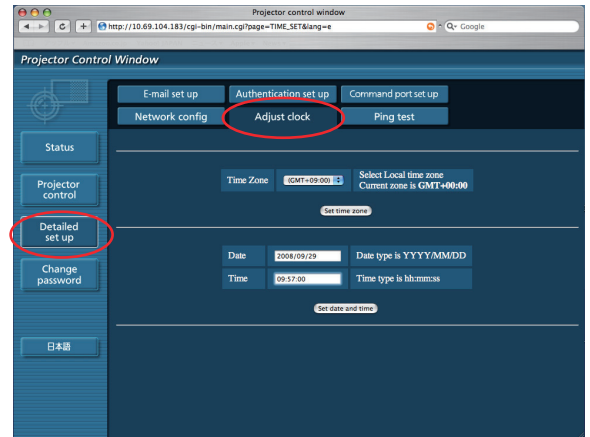
Using WebBrowser (cont.)

※Example of email message sent

■If [NORMAL] is selected under [MAIL CONTENTS]

① If you have completed the email settings

```
=== Panasonic projector report(CONFIGURE) ===
Projector Type    : F300NT

----- E-mail setup data -----
TEMPERATURE WARNING SETUP
MINIMUM TIME      at [ 60] minutes interval
INPUT AIR TEMPERATURE  Over [ 32C / 89F ]

ERROR            [ ON ]
LAMP RUNTIME     [ ON ]  at REMAIN [ 400] H
LAMP RUNTIME     [ ON ]  at REMAIN [ 200] H
FILTER REMAIN    [ ON ]  at REMAIN [ 500] H
FILTER REMAIN    [ ON ]  at REMAIN [   0] H
INPUT AIR TEMPERATURE  [ ON ]
PERIODIC REPORT
Sunday   [ ON ]  Monday  [ ON ]  Tuesday  [ ON ]  Wednesday [ ON ]
Thursday [ ON ]  Friday  [ ON ]  Saturday [ ON ]

00:00  [ ON ]   01:00  [ ON ]   02:00  [ ON ]   03:00  [ ON ]
04:00  [ ON ]   05:00  [ ON ]   06:00  [ ON ]   07:00  [ ON ]
08:00  [ ON ]   09:00  [ ON ]   10:00  [ ON ]   11:00  [ ON ]
12:00  [ ON ]   13:00  [ ON ]   14:00  [ ON ]   15:00  [ ON ]
16:00  [ ON ]   17:00  [ ON ]   18:00  [ ON ]   19:00  [ ON ]
20:00  [ ON ]   21:00  [ ON ]   22:00  [ ON ]   23:00  [ ON ]

----- check system -----
MAIN CPU BUS            [   OK   ]
FAN                     [   OK   ]
INPUT AIR TEMPERATURE   [   OK   ]
OUTPUT AIR TEMPERATURE  [   OK   ]
LAMP REMAIN TIME        [   OK   ]
LAMP STATUS             [   OK   ]
INPUT AIR TEMP.SENSOR   [   OK   ]
OUTPUT AIR TEMP.SENSOR  [   OK   ]
BATTERY                 [   OK   ]
ACF UNIT                [   OK   ]
FILTER REMAIN       [   OK   ]
(Error code 00 00 00 00 00 00 00 00)

Input air temperature    :-44 degC / -47 degF
Output air temperature   : 30 degC /  86 degF
SET RUNTIME        188 H
POWER ON             0 times
LAMP  ON            21 times
LAMP  HIGH          30 H
LAMP  REMAIN      4970 H
FILTER REMAIN        0 H

-------- Current status ---------
MAIN VERSION      1.00.0
NETWORK VERSION   1.00
LAMP STATUS       LAMP=OFF
INPUT SIGNAL      NETWORK    ---
                    ---kHz / ---Hz
REMOTE2 STATUS    DISABLE

----- Wired Network configuration -----
DHCP Client  OFF
IP address   10.69.104.183
MAC address  00:40:63:00:00:12

----- Wireless Network configuration -----
IP address   169.254.213.197
MAC address  00:0E:10:02:6E:7E

Wed Sep 17 13:45:42 2008

----- Memo -----
```

② If an error occurs

```
=== Panasonic projector report(ERROR) ===
Projector Type          : FW300NTU

----- check system -----
MAIN CPU BUS            [ FAILED ]
FAN                     [   OK   ]
INPUT AIR TEMPERATURE   [   OK   ]
OUTPUT AIR TEMPERATURE  [   OK   ]
LAMP REMAIN TIME        [   OK   ]
LAMP STATUS             [ FAILED ]
INPUT AIR TEMP.SENSOR   [ FAILED ]
OUTPUT AIR TEMP.SENSOR  [   OK   ]
BATTERY                 [   OK   ]
ACF UNIT                [ FAILED ]
FILTER REMAIN           [   OK   ]
(Error code 84 44 00 00 10 00 00 04)

Input air temperature    :-44 degC / -47 degF
Output air temperature   : 29 degC /  84 degF
SET RUNTIME        194 H
LAMP  ON            21 times
LAMP  HIGH          36 H
LAMP  REMAIN      4964 H

------- Remaining filter --------
QUANTITY            0 %
APPOROX. TIME       0 H

-------- Current status ---------
MAIN VERSION      1.00.0
NETWORK VERSION   1.000
LAMP STATUS       LAMP=OFF
INPUT SIGNAL      NETWORK    ---
                    ---kHz / ---Hz
REMOTE2 STATUS    DISABLE

----- Wired Network configuration -----
DHCP Client  OFF
IP address   10.69.104.183
MAC address  00:40:63:00:00:12

----- Wireless Network configuration -----
IP address   169.254.213.197
MAC address  00:0E:10:02:6E:7E

Wed Sep 17 13:45:42 2008
----- Memo -----
```

■If [SIMPLE] is selected under [MAIL CONTENTS]

③ If you have completed the email settings

```
Projector Type:
[F300NT]

--- E-mail setup data
-TEMP. WARNING SETUP
MINIMUM TIME :
 at [ 30] minutes interval
INPUT AIR TEMP. :
 Over [ 32C / 89F ]
-
ERROR            [ON ]
LAMP REMAIN [1000H]
LAMP REMAIN [ 999H]
INPUT TEMP.  [ON ]
-PERIODIC REPORT
Sun[ON ] Mon[ON ]
Tue[ON ] Wed[ON ]
Thu[ON ] Fri[ON ]
Sat[ON ]
00:00[ON ] 01:00[ON ]
02:00[ON ] 03:00[ON ]
04:00[ON ] 05:00[ON ]
06:00[ON ] 07:00[ON ]
08:00[ON ] 09:00[ON ]
10:00[ON ] 11:00[ON ]
12:00[ON ] 13:00[ON ]
14:00[ON ] 15:00[ON ]
16:00[ON ] 17:00[ON ]
18:00[ON ] 19:00[ON ]
20:00[ON ] 21:00[ON ]
22:00[ON ] 23:00[ON ]

--- check system
FAN    [   OK   ]
LAMP   [   OK   ]
TEMP.  [   OK   ]
FILTER [   OK   ]
OTHER  [   OK   ]
Error code :
 00 00 00 00
 00 00 00 00
--- Tempurature
Input air:
 27 C /  80 F
Output air:
 30 C /  86 F

--- Lamp remain
LAMP    1000 H

----- Memo -----
```

④ If an error occurs

```
Projector Type:
[F300NT]

--- check system
FAN   [ FAILED ]
LAMP  [   OK   ]
TEMP. [   OK   ]
FILTER [   OK   ]
OTHER [   OK   ]
Error code :
 40 00 00 00
 00 00 01 00
--- Tempurature
Input air:
 27 C /  80 F
Output air:
 26 C /  78 F

--- Lamp remain
LAMP    999 H

----- Memo -----
```

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Using WebBrowser (cont.)

■Authentication server settings

Click [Detailed set up]→[Authentication set up] in the menu.

Auth : Change the authentication method as desired.

SMTP Auth : For SMTP authentication, change the authentication method to use, as desired.

POP Server name : Enter the POP server name.

User name : Enter the user name for the SMTP or POP server.

Password : Enter the password for the SMTP or POP server.

SMTP server port : Enter the SMTP server port number.

POP server port : Enter the POP server port number.
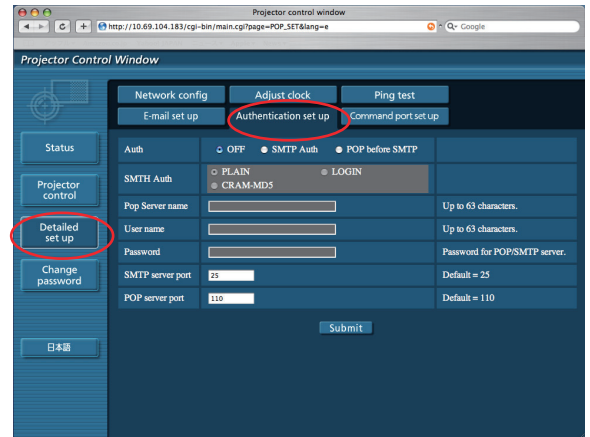
■Command port settings

In the main menu, click [Detailed set up] and [Command port setting].

Command port : Specify a port number to be used for command control.
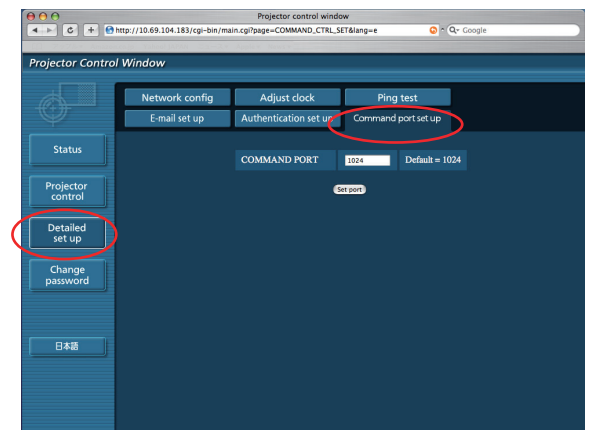
■Password settings

Click [Detailed set up]→[Change password] in the menu.

Set a password for access of the [Projector control window].
Enter the previous password and the new password.
Enter the new password in [Retype] and click [OK].

Notes

• You can enter a password up to 16 characters (upper case/lower case) and symbols.
• You can reset the password of users with user authority, when you logged in as administrator.
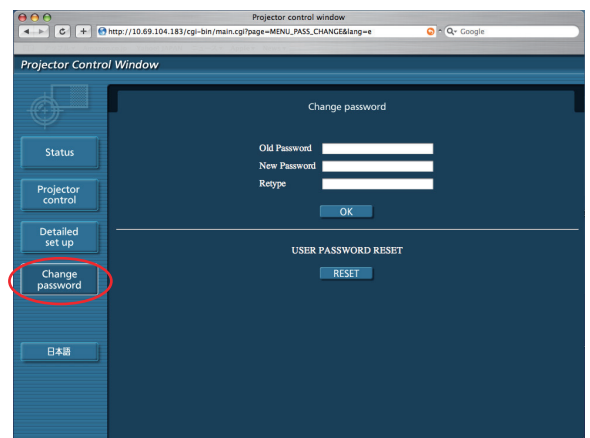
Switching Languages

Switch the language of the WEB control window.
To access this page from other pages, click [English] [日本語] at the main menu.

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Software Uninstall

Wireless Manager ME 5.5

■Uninstalling Drivers

1 **Set the provided CD-ROM into the CD/DVD-ROM drive of a computer.**

2 **Double-click [WMMac5.5.dmg] in the CD/DVD-ROM drive.**
[WMMac5.5] appears on the desktop.

3 **Double-click [WMUninstaller].**
Follow the instructions on the screen and uninstall the software.

■Uninstalling Wireless Manager ME 5.5

1 **Drag-and-drop [] from the [Applications] folder to the [Trash].**

2 **Select [Empty Trash...] from the [Finder] menu.**

Note

• If you have only uninstalled the driver, sound output will no longer be possible.

Glossary

Category	Item	Descriptions	Page
Common Setting of connections	**LAN**	Abbreviation for Local Area Network. This is a network with a relatively narrow range such as inside a company.	**10**
	Access point	These are stations for relaying electromagnetic signals between computers in a wireless LAN. When a computer is connected to an access point, it can communicate through the network connected to the access point.	**22**
	MAC address	Each network card has its own ID No. A discrete ID No. is assigned to each and every network card around the world. These IDs are used to exchange data between cards. These IDs are a combination of a discrete number managed and assigned by the IEEE to each individual manufacturer and a unique number assigned to each individual card by the manufacturer.	**22**
	IP address	Internet Protocol (IP) is a protocol for distributing data, and the address corresponding to the data distribution destination is called the IP address. The same IP address cannot be used within the same LAN.	**25** **47** **48**
	DHCP	Abbreviation for Dynamic Host Configuration Protocol. This function automatically assigns IP addresses to the connected equipment. If a device with the DHCP server function is present within a LAN, it automatically assigns IP addresses to the connected equipment.	**47** **48**
	Subnetmask	This limits the range of the IP addresses assigned to computers in order to divide the network into a number of sections during TCP/IP connection. The value used to divide the network at this time is called the subnetmask.	**47** **48**
	Default Gateway	The devices that are used for different network standards from yours. Default Gateway enables a connection with other network, by adjusting bilateral differences such as communication protocols. If no gateway is specified for the IP address of access destination, data will be sent to the host set as the default gateway.	**47** **48**
	Domain Name	The identifier that corresponds to the location to which data is delivered by the network. It is an alias name consisting of alphabet, numbers, and symbols that replace the more difficult to use enumerated IP address.	**25**

Glossary (cont.)

Category	Item	Descriptions	Page
Advanced setting of connection	**AD_HOC**	This is the mode in which computers communicate with each other directly, rather than via access points.	**49**
	INFRASTRUCTURE (infrastructure mode)	This is the mode in which communications are performed via the access point.	**22** **49**
	SSID	Abbreviation for Service Set ID. The SSID identification code must be set to distinguish equipment included in a wireless LAN that uses access points from equipment not included in that LAN. This may appear as the "ESSID" or the "network name" for wireless LAN cards made by some manufacturers.	**49**
	Open System/ OPEN	This is an authentication of wireless signals employing a public key encryptosystem.	**49**
	Shared Key/ SHARED	This is a secret key encryptosystem for wireless signals in which authentication is performed with a key pre-set in the WEP. Other terms for this method, in which the same key is used for both encryption and decryption, are "shared key encryptosystem" and "common key encryptosystem".	**49**
	WPA-PSK WPA2-PSK	This is a standard covering encryption methods used in wireless LAN. It provides greater security than WEP, and has functions such as a user authentication function and also TKIP (encryption protocol) which automatically changes the encryption key at fixed intervals. And this authentication requires no authentication server.	**49** **50**
	WEP	Abbreviation for Wired Equivalent Privacy. This is a method for encrypting communication data. The encryption key is created and notified only to the communicating user, so the communication data cannot be decrypted by a third party.	**15** **49** **50**
	TKIP	Abbreviation for Temporal Key Integrity Protocol. This encryption protocol provides even greater security than WEP because it changes the encryption key at fixed intervals.	**49**
	AES	Next generation standard cryptography standerdized by the National Institute of Standards and Technology (NIST). AES: Advanced Encryption Standard	**15** **49** **50** **59**

Frequently Asked Questions

Check the following points once more before requesting repair.

No wireless connection can be made between my projector and my computer.

• **Is Wireless Manager ME 5.5 running?**
Wireless Manager ME 5.5 must be started in the computer in order to enable wireless transmissions of images to the projector.

<When the user does not have the [Admin (administrator) authority>
  • When the user does not have the [Admin (administrator)] authority, the [Admin (administrator)]'s name and password are required to make network settings.

<Network setting error>
  When connecting with Network number [U (user)], make sure whether wireless menu setting of the projector is correct or not. (See page 48)

I get dropped from the network.

• **Did the projector enter [Sleep] mode?**
If the projector goes to [Sleep] and is disconnected from the network, quit and restart Wireless Manager ME 5.5.
• **Did you connect to the network via an Easy Wireless Set Up (Network [1], [2], [3], [4], [S-MAP] or [PC Search]), use Wireless Manager ME 5.5 and then quit the application?**
The projector can be disconnected from the network if you connect via an Easy Wireless Set Up ([1], [2], [3] or [4]), use Wireless Manager ME 5.5 and then quit the application.
Set up your wireless LAN again.

I cannot connect to the network via an Easy Wireless Set Up.

• **<[1] to [4] or [U (user)] cannot be selected in access point searches despite selecting [Wireless LAN].>**
Is Wireless Manager ME 5.5 installed in the [Applications] folder?
For an Easy Wireless Set Up, Wireless Manager ME 5.5 must be installed in the [Applications] folder (./Applications).

I cannot lower the display brightness.

• **Is a checkmark placed in the [Disable Screen Saver] checkbox?**
The brightness of the built-in display cannot be lowered if a checkmark appears in the [Disable Screen Saver] checkbox of the <Option> window of Wireless Manager ME 5.5.

I cannot hear sound.

• After installing the software, always reboot the system. (See page 12)
• Sound is not output if the driver has been uninstalled. (See page 63)

Frequently Asked Questions (cont.)

The connection to the wireless LAN or wired LAN is lost.
• If the live mode is canceled or the connection is lost, start the reconnection procedure from the menu. If it is still not possible to establish a connection to the LAN, power off the projector, wait for the cooling fan to stop operating (after the power monitor on the projector changes from orange to red), power the projector back on, and then start the connection procedure from the menu once again. (See pages 13, 23)

The connection cannot be established with IEEE802.11 g.
• In environments with wireless LAN adapters that support both IEEE802.11b and 802.11g, the connection may be established via 802.11b.   • In some operating environments, the connection may be established via 802.11b, depending on the location, radio signal conditions, distance, or other factors.   • Some wireless LAN adapters only support AD HOC connections via IEEE802.11b.

The transfer rate is slow.
• The transfer rate may be slower in some operating environments (depending on such factors as the location, radio signal conditions or distance).   • Avoid placing metal objects or other conductors near the wireless LAN antenna of a computer, otherwise the transfer rate may be slower.   • When WEP is set the image data is converted, so transfer takes time.

Image display is slow or animation is not displayed smoothly.
• Is the computer CPU speed slow? (See page 11) Live mode depends largely upon the computer CPU performance.   • Adverse effects may be exerted if there is any wireless communication in the vicinity.   • When [Resolution] is set to [High Definition] in the <Option> window (See page 43), it may take longer time to display images.   • The speed may be slower when any other applications are running concurrently.

Frequently Asked Questions (cont.)

There is a time lag between operations at the computer and results in the projected image.
• Wireless Manager ME 5.5 reads the screen, compresses the data and transmits it to the projector. In the projector, the received data are extracted and then projected. Some delays occur in this system, due to the processing time and factors in the wireless environment. Different computers may also produce varying lag times.
The Wireless Manager ME 5.5 color display is strange and characters are difficult to read.
• Check the [Colors] setting on the [Display] tab in [System Preferences].   Set [Colors] to [approx. 32000 Colors] or higher.   The live mode cannot be projected when set to [256 Colors].
Making a wireless LAN connection while using the internet
• If you have a wireless LAN environment which allows an internet connection, you can use both the Internet and wireless LAN connection at the same time by integrating a projector in this environment. (See page 22)   • If you have a wired internet connection, this projector allows wireless use simultaneously with a wired connection to the internet.
The WEB control window does not appear.
• Manually release the proxy settings of the WebBrowser used.

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